

Charles F Aquadro

List of Publications by Year in descending order

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86
papers

8,932
citations

71102

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56724

83
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89
docs citations

89
times ranked

8175
citing authors

#	ARTICLE	IF	CITATIONS
1	Recommendations for improving statistical inference in population genomics. <i>PLoS Biology</i> , 2022, 20, e3001669.	5.6	60
2	Functional Divergence of the <i>bag-of-marbles</i> Gene in the <i>Drosophila melanogaster</i> Species Group. <i>Molecular Biology and Evolution</i> , 2022, 39, .	8.9	5
3	Molecular population genetics of <i>Sex-lethal</i> (<i>Sxl</i>) in the <i>Drosophila melanogaster</i> species group: a locus that genetically interacts with <i>Wolbachia pipientis</i> in <i>Drosophila melanogaster</i> . <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	2
4	Diverse <i>w⁺</i> Mel variants of <i>Wolbachia pipientis</i> differentially rescue fertility and cytological defects of the <i>bag of marbles</i> partial loss of function mutation in <i>Drosophila melanogaster</i> . <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	6
5	Baker's Yeast Clinical Isolates Provide a Model for How Pathogenic Yeasts Adapt to Stress. <i>Trends in Genetics</i> , 2019, 35, 804-817.	6.7	13
6	The importance of the Neutral Theory in 1968 and 50 years on: A response to Kern and Hahn 2018. <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 111-114.	2.3	123
7	Incompatibilities in Mismatch Repair Genes <i>MLH1-PMS1</i> Contribute to a Wide Range of Mutation Rates in Human Isolates of Baker's Yeast. <i>Genetics</i> , 2018, 210, 1253-1266.	2.9	17
8	Mismatch Repair Incompatibilities in Diverse Yeast Populations. <i>Genetics</i> , 2017, 205, 1459-1471.	2.9	22
9	Recent and Long-Term Selection Across Synonymous Sites in <i>Drosophila ananassae</i> . <i>Journal of Molecular Evolution</i> , 2016, 83, 50-60.	1.8	12
10	Inversions and adaptation to the plant toxin ouabain shape DNA sequence variation within and between chromosomal inversions of <i>Drosophila subobscura</i> . <i>Scientific Reports</i> , 2016, 6, 23754.	3.3	16
11	Molecular Evolution of <i>Drosophila</i> Germline Stem Cell and Neural Stem Cell Regulating Genes. <i>Genome Biology and Evolution</i> , 2015, 7, 3097-3114.	2.5	10
12	The <i>Drosophila</i> bag of marbles Gene Interacts Genetically with <i>Wolbachia</i> and Shows Female-Specific Effects of Divergence. <i>PLoS Genetics</i> , 2015, 11, e1005453.	3.5	31
13	Adaptive Evolution of Genes Involved in the Regulation of Germline Stem Cells in <i>Drosophila melanogaster</i> and <i>D. simulans</i> . <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 583-592.	1.8	22
14	Population Genomics of Infectious and Integrated <i>Wolbachia pipientis</i> Genomes in <i>Drosophila ananassae</i> . <i>Genome Biology and Evolution</i> , 2015, 7, 2362-2382.	2.5	28
15	A Genetic Incompatibility Accelerates Adaptation in Yeast. <i>PLoS Genetics</i> , 2015, 11, e1005407.	3.5	22
16	A Nutrient-Driven tRNA Modification Alters Translational Fidelity and Genome-wide Protein Coding across an Animal Genus. <i>PLoS Biology</i> , 2014, 12, e1002015.	5.6	93
17	Evolutionary Rate Covariation Identifies New Members of a Protein Network Required for <i>Drosophila melanogaster</i> Female Post-Mating Responses. <i>PLoS Genetics</i> , 2014, 10, e1004108.	3.5	137
18	The Coevolutionary Period of <i>Wolbachia pipientis</i> Infecting <i>Drosophila ananassae</i> and Its Impact on the Evolution of the Host Germline Stem Cell Regulating Genes. <i>Molecular Biology and Evolution</i> , 2014, 31, 2457-2471.	8.9	24

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19	Fine-Scale Heterogeneity in Crossover Rate in the <i>garnet</i> - <i>scalloped</i> Region of the <i>Drosophila melanogaster</i> X Chromosome. <i>Genetics</i> , 2013, 194, 375-387.	2.9	33
20	Inferences of Demography and Selection in an African Population of <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2013, 193, 215-228.	2.9	21
21	Evolutionary Rate Covariation in Meiotic Proteins Results from Fluctuating Evolutionary Pressure in Yeasts and Mammals. <i>Genetics</i> , 2013, 193, 529-538.	2.9	34
22	Temporally Variable Selection on Proteolysis-Related Reproductive Tract Proteins in <i>Drosophila</i> . <i>Molecular Biology and Evolution</i> , 2012, 29, 229-238.	8.9	12
23	Evolutionary rate covariation reveals shared functionality and coexpression of genes. <i>Genome Research</i> , 2012, 22, 714-720.	5.5	89
24	A Novel Method to Detect Proteins Evolving at Correlated Rates: Identifying New Functional Relationships between Coevolving Proteins. <i>Molecular Biology and Evolution</i> , 2010, 27, 1152-1161.	8.9	42
25	Strong Evidence for Lineage and Sequence Specificity of Substitution Rates and Patterns in <i>Drosophila</i> . <i>Molecular Biology and Evolution</i> , 2009, 26, 1591-1605.	8.9	57
26	Locus-Specific Decoupling of Base Composition Evolution at Synonymous Sites and Introns along the <i>Drosophila melanogaster</i> and <i>Drosophila sechellia</i> Lineages. <i>Genome Biology and Evolution</i> , 2009, 1, 67-74.	2.5	11
27	Coevolution of Interacting Fertilization Proteins. <i>PLoS Genetics</i> , 2009, 5, e1000570.	3.5	125
28	Stepwise Modification of a Modular Enhancer Underlies Adaptation in a <i>Drosophila</i> Population. <i>Science</i> , 2009, 326, 1663-1667.	12.6	259
29	Estimation of Fine-Scale Recombination Intensity Variation in the white ^{ec} Interval of <i>D. melanogaster</i> . <i>Journal of Molecular Evolution</i> , 2009, 69, 42-53.	1.8	29
30	Inferring Selection in Partially Sequenced Regions. <i>Molecular Biology and Evolution</i> , 2008, 25, 438-446.	8.9	13
31	Evidence for Positive Selection on <i>Drosophila melanogaster</i> Seminal Fluid Protease Homologs. <i>Molecular Biology and Evolution</i> , 2008, 25, 497-506.	8.9	54
32	Patterns of Mutation and Selection at Synonymous Sites in <i>Drosophila</i> . <i>Molecular Biology and Evolution</i> , 2007, 24, 2687-2697.	8.9	45
33	Recurrent Positive Selection at <i>Bgcn</i> , a Key Determinant of Germ Line Differentiation, Does Not Appear to be Driven by Simple Coevolution with Its Partner Protein <i>Bam</i> . <i>Molecular Biology and Evolution</i> , 2007, 24, 182-191.	8.9	36
34	On the Utility of Linkage Disequilibrium as a Statistic for Identifying Targets of Positive Selection in Nonequilibrium Populations. <i>Genetics</i> , 2007, 176, 2371-2379.	2.9	84
35	Patterns of Sequence Variability and Divergence at the diminutive Gene Region of <i>Drosophila melanogaster</i> : Complex Patterns Suggest an Ancestral Selective Sweep. <i>Genetics</i> , 2007, 177, 1071-1085.	2.9	18
36	Phylogenetic incongruence in the <i>Drosophila melanogaster</i> species group. <i>Molecular Phylogenetics and Evolution</i> , 2007, 43, 1138-1150.	2.7	30

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37	Evolution of genes and genomes on the <i>Drosophila</i> phylogeny. <i>Nature</i> , 2007, 450, 203-218.	27.8	1,886
38	The genetic basis of adaptive pigmentation variation in <i>Drosophila melanogaster</i> . <i>Molecular Ecology</i> , 2007, 16, 2844-2851.	3.9	132
39	Approaches for identifying targets of positive selection. <i>Trends in Genetics</i> , 2007, 23, 568-577.	6.7	89
40	Maximum Likelihood Estimation of Ancestral Codon Usage Bias Parameters in <i>Drosophila</i> . <i>Molecular Biology and Evolution</i> , 2006, 24, 228-235.	8.9	71
41	Evidence for a Selective Sweep on Chromosome 1 of Cultivated Sorghum. <i>Crop Science</i> , 2006, 46, S-27.	1.8	11
42	Challenges of Detecting Directional Selection After a Bottleneck: Lessons From Sorghum bicolor. <i>Genetics</i> , 2006, 173, 953-964.	2.9	86
43	History and Structure of Sub-Saharan Populations of <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2006, 174, 915-929.	2.9	70
44	Negative epistasis between natural variants of the <i>Saccharomyces cerevisiae</i> MLH1 and PMS1 genes results in a defect in mismatch repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3256-3261.	7.1	76
45	A Scan of Molecular Variation Leads to the Narrow Localization of a Selective Sweep Affecting Both Afrotropical and Cosmopolitan Populations of <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2006, 172, 1093-1105.	2.9	35
46	EVIDENCE OF SUSCEPTIBILITY AND RESISTANCE TO CRYPTIC X-LINKED MEIOTIC DRIVE IN NATURAL POPULATIONS OF <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 1280-1291.	2.3	13
47	Multiple Signatures of Positive Selection Downstream of Notch on the X Chromosome in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2005, 171, 639-653.	2.9	39
48	EVIDENCE OF SUSCEPTIBILITY AND RESISTANCE TO CRYPTIC X-LINKED MEIOTIC DRIVE IN NATURAL POPULATIONS OF <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 1280.	2.3	0
49	Fitting background-selection predictions to levels of nucleotide variation and divergence along the human autosomes. <i>Genome Research</i> , 2005, 15, 1211-1221.	5.5	44
50	Distinguishing Between Selective Sweeps and Demography Using DNA Polymorphism Data. <i>Genetics</i> , 2005, 170, 1401-1410.	2.9	229
51	Microsatellite Mutation Models. <i>Genetics</i> , 2004, 168, 383-395.	2.9	86
52	Comparative structural modeling and inference of conserved protein classes in <i>Drosophila</i> seminal fluid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 13542-13547.	7.1	118
53	Evolutionary Expressed Sequence Tag Analysis of <i>Drosophila</i> Female Reproductive Tracts Identifies Genes Subjected to Positive Selection. <i>Genetics</i> , 2004, 168, 1457-1465.	2.9	199
54	DNA Variability and Divergence at the Notch Locus in <i>Drosophila melanogaster</i> and <i>D. simulans</i> : A Case of Accelerated Synonymous Site Divergence. <i>Genetics</i> , 2004, 167, 171-185.	2.9	47

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55	Nucleotide Polymorphism in the Est6 Promoter, Which Is Widespread in Derived Populations of <i>Drosophila melanogaster</i> , Changes the Level of Esterase 6 Expressed in the Male Ejaculatory Duct. <i>Genetics</i> , 2002, 162, 785-797.	2.9	25
56	Genome-wide variation in the human and fruitfly: a comparison. <i>Current Opinion in Genetics and Development</i> , 2001, 11, 627-634.	3.3	91
57	Microsatellite Variation in Colonizing and Palearctic Populations of <i>Drosophila subobscura</i> . <i>Molecular Biology and Evolution</i> , 2001, 18, 731-740.	8.9	66
58	Polymorphism in Abalone Fertilization Proteins Is Consistent with the Neutral Evolution of the Egg's Receptor for Lysin (VERL) and Positive Darwinian Selection of Sperm Lysin. <i>Molecular Biology and Evolution</i> , 2001, 18, 376-383.	8.9	83
59	The Evolutionary Analysis of "Orphans" From the <i>Drosophila</i> Genome Identifies Rapidly Diverging and Incorrectly Annotated Genes. <i>Genetics</i> , 2001, 159, 589-598.	2.9	64
60	Dynamics of Microsatellite Divergence Under Stepwise Mutation and Proportional Slippage/Point Mutation Models. <i>Genetics</i> , 2001, 159, 839-852.	2.9	53
61	High Density of Long Dinucleotide Microsatellites in <i>Drosophila subobscura</i> . <i>Molecular Biology and Evolution</i> , 2000, 17, 1259-1267.	8.9	36
62	Microsatellite variation in populations of <i>Drosophila pseudoobscura</i> and <i>Drosophila persimilis</i> . <i>Genetical Research</i> , 2000, 75, 25-35.	0.9	55
63	Distribution and Abundance of Microsatellites in the Yeast Genome Can Be Explained by a Balance Between Slippage Events and Point Mutations. <i>Molecular Biology and Evolution</i> , 2000, 17, 1210-1219.	8.9	73
64	The Problem of Inferring Selection and Evolutionary History from Molecular Data. , 2000, , 135-149.		4
65	DNA Sequence Variation and the Recombinational Landscape in <i>Drosophila pseudoobscura</i> : A Study of the Second Chromosome. <i>Genetics</i> , 1999, 153, 859-869.	2.9	52
66	Large Number of Replacement Polymorphisms in Rapidly Evolving Genes of <i>Drosophila</i> : Implications for Genome-Wide Surveys of DNA Polymorphism. <i>Genetics</i> , 1999, 153, 1717-1729.	2.9	40
67	Mutation and evolution of microsatellites in <i>Drosophila melanogaster</i> . <i>Genetica</i> , 1998, 102/103, 359-367.	1.1	35
68	Mutation and evolution of microsatellites in <i>Drosophila melanogaster</i> . <i>Contemporary Issues in Genetics and Evolution</i> , 1998, , 359-367.	0.9	13
69	Genetic Variation and Differentiation at Microsatellite Loci in <i>Drosophila simulans</i> : Evidence for Founder Effects in New World Populations. <i>Genetics</i> , 1998, 150, 777-790.	2.9	80
70	DNA Variability and Recombination Rates at X-Linked Loci in Humans. <i>Genetics</i> , 1998, 150, 1133-1141.	2.9	194
71	Insights into the evolutionary process from patterns of DNA sequence variability. <i>Current Opinion in Genetics and Development</i> , 1997, 7, 835-840.	3.3	42
72	Low mutation rates of microsatellite loci in <i>Drosophila melanogaster</i> . <i>Nature Genetics</i> , 1997, 15, 99-102.	21.4	223

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73	Contrasting Patterns of Nucleotide Sequence Variation at the Glucose Dehydrogenase (<i>Gld</i>) Locus in Different Populations of <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1997, 145, 1053-1062.	2.9	35
74	Nonneutral Mitochondrial DNA Variation in Humans and Chimpanzees. <i>Genetics</i> , 1996, 142, 953-963.	2.9	211
75	Stability of Allozyme and Mitochondrial DNA Markers among Three Year-Classes of Lake Trout Propagated from Seneca Lake, New York. <i>North American Journal of Fisheries Management</i> , 1994, 14, 467-474.	1.0	2
76	Regional variation in fruitflies. <i>Nature</i> , 1994, 369, 450-450.	27.8	4
77	Selection, Recombination, and DNA Polymorphism in <i>Drosophila</i> . , 1994, , 46-56.		106
78	African and North American populations of <i>Drosophila melanogaster</i> are very different at the DNA level. <i>Nature</i> , 1993, 365, 548-550.	27.8	330
79	Mitochondrial DNA Variation among Lake Trout (<i>Salvelinus namaycush</i>) Strains Stocked into Lake Ontario. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1993, 50, 2397-2403.	1.4	112
80	Molecular Population Genetics of <i>Drosophila</i> . Springer Series in Experimental Entomology, 1993, , 222-266.	0.7	13
81	Levels of naturally occurring DNA polymorphism correlate with recombination rates in <i>D. melanogaster</i> . <i>Nature</i> , 1992, 356, 519-520.	27.8	1,019
82	Why is the genome variable? Insights from <i>Drosophila</i> . <i>Trends in Genetics</i> , 1992, 8, 355-362.	6.7	76
83	Canine host range and a specific epitope map along with variant sequences in the capsid protein gene of canine parvovirus and related feline, mink, and raccoon parvoviruses. <i>Virology</i> , 1988, 166, 293-307.	2.4	168
84	Nucleotide Sequence of the Adh Gene Region of <i>Drosophila pseudoobscura</i> : Evolutionary Change and Evidence for an Ancient Gene Duplication. <i>Genetics</i> , 1987, 117, 61-73.	2.9	115
85	MOLECULAR POPULATION GENETICS OF THE ALCOHOL DEHYDROGENASE GENE REGION OF <i>DROSOPHILA MELANOGASTER</i> . <i>Genetics</i> , 1986, 114, 1165-1190.	2.9	234
86	HUMAN MITOCHONDRIAL DNA VARIATION AND EVOLUTION: ANALYSIS OF NUCLEOTIDE SEQUENCES FROM SEVEN INDIVIDUALS. <i>Genetics</i> , 1983, 103, 287-312.	2.9	401