

Gwenael V Piganeau

List of Publications by Year in descending order

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57
papers

5,179
citations

126907

33
h-index

155660

55
g-index

64
all docs

64
docs citations

64
times ranked

6183
citing authors

#	ARTICLE	IF	CITATIONS
1	The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the Functional Diversity of Eukaryotic Life in the Oceans through Transcriptome Sequencing. <i>PLoS Biology</i> , 2014, 12, e1001889.	5.6	885
2	Genome analysis of the smallest free-living eukaryote <i>Ostreococcus tauri</i> unveils many unique features. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11647-11652.	7.1	809
3	The tiny eukaryote <i>Ostreococcus</i> provides genomic insights into the paradox of plankton speciation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7705-7710.	7.1	563
4	A Holistic Approach to Marine Eco-Systems Biology. <i>PLoS Biology</i> , 2011, 9, e1001177.	5.6	353
5	A Broad Survey of Recombination in Animal Mitochondria. <i>Molecular Biology and Evolution</i> , 2004, 21, 2319-2325.	8.9	178
6	Vanishing GC-Rich Isochores in Mammalian Genomes. <i>Genetics</i> , 2002, 162, 1837-1847.	2.9	157
7	Gene functionalities and genome structure in <i>Bathycoccus prasinos</i> reflect cellular specializations at the base of the green lineage. <i>Genome Biology</i> , 2012, 13, R74.	9.6	143
8	The rate of adaptive evolution in animal mitochondria. <i>Molecular Ecology</i> , 2016, 25, 67-78.	3.9	109
9	Evidence for Variation in the Effective Population Size of Animal Mitochondrial DNA. <i>PLoS ONE</i> , 2009, 4, e4396.	2.5	108
10	Life-Cycle and Genome of OtV5, a Large DNA Virus of the Pelagic Marine Unicellular Green Alga <i>Ostreococcus tauri</i> . <i>PLoS ONE</i> , 2008, 3, e2250.	2.5	107
11	An improved genome of the model marine alga <i>Ostreococcus tauri</i> unfolds by assessing Illumina de novo assemblies. <i>BMC Genomics</i> , 2014, 15, 1103.	2.8	90
12	Marine Prasinovirus Genomes Show Low Evolutionary Divergence and Acquisition of Protein Metabolism Genes by Horizontal Gene Transfer. <i>Journal of Virology</i> , 2010, 84, 12555-12563.	3.4	87
13	picoplankton PLAZA, a genome database of microbial photosynthetic eukaryotes. <i>Environmental Microbiology</i> , 2013, 15, 2147-2153.	3.8	87
14	Estimating the distribution of fitness effects from DNA sequence data: Implications for the molecular clock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 10335-10340.	7.1	83
15	Cryptic Sex in the Smallest Eukaryotic Marine Green Alga. <i>Molecular Biology and Evolution</i> , 2010, 27, 47-54.	8.9	81
16	Analysis of the Global Ocean Sampling (GOS) Project for Trends in Iron Uptake by Surface Ocean Microbes. <i>PLoS ONE</i> , 2012, 7, e30931.	2.5	79
17	Population genomics of picophytoplankton unveils novel chromosome hypervariability. <i>Science Advances</i> , 2017, 3, e1700239.	10.3	73
18	Spontaneous Mutation Rate in the Smallest Photosynthetic Eukaryotes. <i>Molecular Biology and Evolution</i> , 2017, 34, 1770-1779.	8.9	65

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19	How and Why DNA Barcodes Underestimate the Diversity of Microbial Eukaryotes. PLoS ONE, 2011, 6, e16342.	2.5	62
20	Metagenomes of the Picoalga Bathycoccus from the Chile Coastal Upwelling. PLoS ONE, 2012, 7, e39648.	2.5	58
21	Fish larval recruitment to reefs is a thyroid hormone-mediated metamorphosis sensitive to the pesticide chlorpyrifos. ELife, 2017, 6, .	6.0	58
22	The <i>Seminavis robusta</i> genome provides insights into the evolutionary adaptations of benthic diatoms. Nature Communications, 2020, 11, 3320.	12.8	55
23	First Estimation of the Spontaneous Mutation Rate in Diatoms. Genome Biology and Evolution, 2019, 11, 1829-1837.	2.5	54
24	An investigation of the variation in the transition bias among various animal mitochondrial DNA. Gene, 2005, 355, 58-66.	2.2	53
25	Hill-Robertson Interference is a Minor Determinant of Variations in Codon Bias Across <i>Drosophila melanogaster</i> and <i>Caenorhabditis elegans</i> Genomes. Molecular Biology and Evolution, 2002, 19, 1399-1406.	8.9	52
26	A genomics approach reveals the global genetic polymorphism, structure, and functional diversity of ten accessions of the marine model diatom <i>Phaeodactylum tricornutum</i> . ISME Journal, 2020, 14, 347-363.	9.8	50
27	A reanalysis of the indirect evidence for recombination in human mitochondrial DNA. Heredity, 2004, 92, 282-288.	2.6	48
28	Morphology, Genome Plasticity, and Phylogeny in the Genus <i>Ostreococcus</i> Reveal a Cryptic Species, <i>O. mediterraneus</i> sp. nov. (Mamiellales, Mamiellophyceae). Protist, 2013, 164, 643-659.	1.5	48
29	<i>Marinobacter</i> Dominates the Bacterial Community of the <i>Ostreococcus tauri</i> Phycosphere in Culture. Frontiers in Microbiology, 2016, 7, 1414.	3.5	43
30	Expected Relationship Between the Silent Substitution Rate and the GC Content: Implications for the Evolution of Isochores. Journal of Molecular Evolution, 2002, 54, 129-133.	1.8	41
31	Clues about the Genetic Basis of Adaptation Emerge from Comparing the Proteomes of Two <i>Ostreococcus</i> Ecotypes (Chlorophyta, Prasinophyceae). Molecular Biology and Evolution, 2008, 25, 2293-2300.	8.9	39
32	A Viral Immunity Chromosome in the Marine Picoeukaryote, <i>Ostreococcus tauri</i> . PLoS Pathogens, 2016, 12, e1005965.	4.7	38
33	Selection Pressure-Driven Evolution of the Epstein-Barr Virus-Encoded Oncogene LMP1 in Virus Isolates from Southeast Asia. Journal of Virology, 2004, 78, 7131-7137.	3.4	36
34	Genome Analyses of the Microalga <i>Picochlorum</i> Provide Insights into the Evolution of Thermotolerance in the Green Lineage. Genome Biology and Evolution, 2018, 10, 2347-2365.	2.5	36
35	Picoeukaryotic sequences in the Sargasso Sea metagenome. Genome Biology, 2008, 9, R5.	9.6	34
36	Genome diversity in the smallest marine photosynthetic eukaryotes. Research in Microbiology, 2011, 162, 570-577.	2.1	33

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37	Virus-host coexistence in phytoplankton through the genomic lens. <i>Science Advances</i> , 2020, 6, eaay2587.	10.3	30
38	Screening the Sargasso Sea metagenome for data to investigate genome evolution in <i>Ostreococcus</i> (Prasinophyceae, Chlorophyta). <i>Gene</i> , 2007, 406, 184-190.	2.2	28
39	Bacteria in <i>Ostreococcus tauri</i> cultures – friends, foes or hitchhikers?. <i>Frontiers in Microbiology</i> , 2014, 5, 505.	3.5	27
40	Evolution of Codon Usage in the Smallest Photosynthetic Eukaryotes and Their Giant Viruses. <i>Genome Biology and Evolution</i> , 2013, 5, 848-859.	2.5	24
41	Spontaneous mutation rate as a source of diversity for improving desirable traits in cultured microalgae. <i>Algal Research</i> , 2018, 35, 85-90.	4.6	21
42	Genome Resolved Biogeography of Mamiellales. <i>Genes</i> , 2020, 11, 66.	2.4	21
43	Organellar Inheritance in the Green Lineage: Insights from <i>Ostreococcus tauri</i> . <i>Genome Biology and Evolution</i> , 2013, 5, 1503-1511.	2.5	20
44	Metabolomic Insights into Marine Phytoplankton Diversity. <i>Marine Drugs</i> , 2020, 18, 78.	4.6	18
45	Fitness Effects of Spontaneous Mutations in Picoeukaryotic Marine Green Algae. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 2063-2071.	1.8	13
46	Environmental and Evolutionary Genomics of Microbial Algae: Power and Challenges of Metagenomics. <i>Advances in Botanical Research</i> , 2012, 64, 383-427.	1.1	11
47	Single cell ecogenomics reveals mating types of individual cells and ssDNA viral infections in the smallest photosynthetic eukaryotes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190089.	4.0	11
48	Unravelling cis-Regulatory Elements in the Genome of the Smallest Photosynthetic Eukaryote: Phylogenetic Footprinting in <i>Ostreococcus</i> . <i>Journal of Molecular Evolution</i> , 2009, 69, 249-259.	1.8	10
49	High copy numbers of multiple transposable element families in an Australian population of <i>Drosophila simulans</i> . <i>Genetical Research</i> , 2000, 76, 117-119.	0.9	9
50	Multiplicative versus additive selection in relation to genome evolution: a simulation study. <i>Genetical Research</i> , 2001, 78, 171-175.	0.9	9
51	Features of the Opportunistic Behaviour of the Marine Bacterium <i>Marinobacter algicola</i> in the Microalga <i>Ostreococcus tauri</i> Phycosphere. <i>Microorganisms</i> , 2021, 9, 1777.	3.6	6
52	Evolutionary Genomics of Sex-Related Chromosomes at the Base of the Green Lineage. <i>Genome Biology and Evolution</i> , 2021, 13, .	2.5	5
53	Diversity and Evolution of Mamiellophyceae: Early-Diverging Phytoplanktonic Green Algae Containing Many Cosmopolitan Species. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 240.	2.6	4
54	Combining Nanopore and Illumina Sequencing Permits Detailed Analysis of Insertion Mutations and Structural Variations Produced by PEG-Mediated Transformation in <i>Ostreococcus tauri</i> . <i>Cells</i> , 2021, 10, 664.	4.1	3

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55	Long-Term Stability of Bacterial Associations in a Microcosm of <i>Ostreococcus tauri</i> (Chlorophyta.) Tj ETQq1 1 0.784314 rgBT ₁ /Overlo	3.6	1
56	A planktonic picoeukaryote makes big changes to the green lineage. <i>Nature Ecology and Evolution</i> , 2020, 4, 1160-1161.	7.8	0
57	HervÃ© Moreau 16/10/1958 - 05/07/2020. <i>Virologie</i> , 2020, 24, 30-31.	0.1	0