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	Diversity and Evolution of Mamiellophyceae: Early-Diverging Phytoplanktonic Green Algae Containing Many Cosmopolitan Species. Journal of Marine Science and Engineering, 2022, 10, 240.	2.6	4
2	Long-Term Stability of Bacterial Associations in a Microcosm of Ostreococcus tauri (Chlorophyta,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.6	1
3	Evolutionary Genomics of Sex-Related Chromosomes at the Base of the Green Lineage. Genome Biology and Evolution, 2021, 13, .	2.5	5
4	Combining Nanopore and Illumina Sequencing Permits Detailed Analysis of Insertion Mutations and Structural Variations Produced by PEG-Mediated Transformation in Ostreococcus tauri. Cells, 2021, 10, 664.	4.1	3
5	Features of the Opportunistic Behaviour of the Marine Bacterium Marinobacter algicola in the Microalga Ostreococcus tauri Phycosphere. Microorganisms, 2021, 9, 1777.	3.6	6
6	A genomics approach reveals the global genetic polymorphism, structure, and functional diversity of ten accessions of the marine model diatom Phaeodactylum tricornutum. ISME Journal, 2020, 14, 347-363.	9.8	50
7	A planktonic picoeukaryote makes big changes to the green lineage. Nature Ecology and Evolution, 2020, 4, 1160-1161.	7.8	0
8	The Seminavis robusta genome provides insights into the evolutionary adaptations of benthic diatoms. Nature Communications, 2020, 11, 3320.	12.8	55
9	Genome Resolved Biogeography of Mamiellales. Genes, 2020, 11, 66.	2.4	21
10	Metabolomic Insights into Marine Phytoplankton Diversity. Marine Drugs, 2020, 18, 78.	4.6	18
11	Virus-host coexistence in phytoplankton through the genomic lens. Science Advances, 2020, 6, eaay2587.	10.3	30
12	HervÃ© Moreau 16/10/1958 - 05/07/2020. Virologie, 2020, 24, 30-31.	0.1	0
13	Single cell ecogenomics reveals mating types of individual cells and ssDNA viral infections in the smallest photosynthetic eukaryotes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190089.	4.0	11
14	First Estimation of the Spontaneous Mutation Rate in Diatoms. Genome Biology and Evolution, 2019, 11, 1829-1837.	2.5	54
15	Genome Analyses of the Microalga Picochlorum Provide Insights into the Evolution of Thermotolerance in the Green Lineage. Genome Biology and Evolution, 2018, 10, 2347-2365.	2.5	36
16	Spontaneous mutation rate as a source of diversity for improving desirable traits in cultured microalgae. Algal Research, 2018, 35, 85-90.	4.6	21
17	Population genomics of picophytoplankton unveils novel chromosome hypervariability. Science Advances, 2017, 3, e1700239.	10.3	73
18	Spontaneous Mutation Rate in the Smallest Photosynthetic Eukaryotes. Molecular Biology and Evolution, 2017, 34, 1770-1779.	8.9	65

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19	Fish larval recruitment to reefs is a thyroid hormone-mediated metamorphosis sensitive to the pesticide chlorpyrifos. ELife, 2017, 6, .	6.0	58
20	Fitness Effects of Spontaneous Mutations in Picoeukaryotic Marine Green Algae. G3: Genes, Genomes, Genetics, 2016, 6, 2063-2071.	1.8	13
21	Marinobacter Dominates the Bacterial Community of the Ostreococcus tauri Phycosphere in Culture. Frontiers in Microbiology, 2016, 7, 1414.	3.5	43
22	The rate of adaptive evolution in animal mitochondria. Molecular Ecology, 2016, 25, 67-78.	3.9	109
23	A Viral Immunity Chromosome in the Marine Picoeukaryote, Ostreococcus tauri. PLoS Pathogens, 2016, 12, e1005965.	4.7	38
24	Bacteria in Ostreococcus tauri cultures Ã¢â‚¬â€œ friends, foes or hitchhikers?. Frontiers in Microbiology, 2014, 5, 505.	3.5	27
25	The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the Functional Diversity of Eukaryotic Life in the Oceans through Transcriptome Sequencing. PLoS Biology, 2014, 12, e1001889.	5.6	885
26	An improved genome of the model marine alga Ostreococcus tauri unfolds by assessing Illumina de novo assemblies. BMC Genomics, 2014, 15, 1103.	2.8	90
27	Morphology, Genome Plasticity, and Phylogeny in the Genus Ostreococcus Reveal a Cryptic Species, O. mediterraneus sp. nov. (Mamiellales, Mamiellophyceae). Protist, 2013, 164, 643-659.	1.5	48
28	Organellar Inheritance in the Green Lineage: Insights from Ostreococcus tauri. Genome Biology and Evolution, 2013, 5, 1503-1511.	2.5	20
29	Evolution of Codon Usage in the Smallest Photosynthetic Eukaryotes and Their Giant Viruses. Genome Biology and Evolution, 2013, 5, 848-859.	2.5	24
30	picoâ€‹<scp>PLAZA</scp>, a genome database of microbial photosynthetic eukaryotes. Environmental Microbiology, 2013, 15, 2147-2153.	3.8	87
31	Gene functionalities and genome structure in Bathycoccus prasinos reflect cellular specializations at the base of the green lineage. Genome Biology, 2012, 13, R74.	9.6	143
32	Environmental and Evolutionary Genomics of Microbial Algae: Power and Challenges of Metagenomics. Advances in Botanical Research, 2012, 64, 383-427.	1.1	11
33	Analysis of the Global Ocean Sampling (GOS) Project for Trends in Iron Uptake by Surface Ocean Microbes. PLoS ONE, 2012, 7, e30931.	2.5	79
34	Metagenomes of the Picoalga Bathycoccus from the Chile Coastal Upwelling. PLoS ONE, 2012, 7, e39648.	2.5	58
35	A Holistic Approach to Marine Eco-Systems Biology. PLoS Biology, 2011, 9, e1001177.	5.6	353
36	Genome diversity in the smallest marine photosynthetic eukaryotes. Research in Microbiology, 2011, 162, 570-577.	2.1	33

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37	How and Why DNA Barcodes Underestimate the Diversity of Microbial Eukaryotes. PLoS ONE, 2011, 6, e16342.	2.5	62
38	Marine Prasinovirus Genomes Show Low Evolutionary Divergence and Acquisition of Protein Metabolism Genes by Horizontal Gene Transfer. Journal of Virology, 2010, 84, 12555-12563.	3.4	87
39	Cryptic Sex in the Smallest Eukaryotic Marine Green Alga. Molecular Biology and Evolution, 2010, 27, 47-54.	8.9	81
40	Unravelling cis-Regulatory Elements in the Genome of the Smallest Photosynthetic Eukaryote: Phylogenetic Footprinting in Ostreococcus. Journal of Molecular Evolution, 2009, 69, 249-259.	1.8	10
41	Evidence for Variation in the Effective Population Size of Animal Mitochondrial DNA. PLoS ONE, 2009, 4, e4396.	2.5	108
42	Picoeukaryotic sequences in the Sargasso Sea metagenome. Genome Biology, 2008, 9, R5.	9.6	34
43	Clues about the Genetic Basis of Adaptation Emerge from Comparing the Proteomes of Two Ostreococcus Ecotypes (Chlorophyta, Prasinophyceae). Molecular Biology and Evolution, 2008, 25, 2293-2300.	8.9	39
44	Life-Cycle and Genome of OtV5, a Large DNA Virus of the Pelagic Marine Unicellular Green Alga Ostreococcus tauri. PLoS ONE, 2008, 3, e2250.	2.5	107
45	The tiny eukaryote Ostreococcus provides genomic insights into the paradox of plankton speciation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7705-7710.	7.1	563
46	Screening the Sargasso Sea metagenome for data to investigate genome evolution in Ostreococcus (Prasinophyceae, Chlorophyta). Gene, 2007, 406, 184-190.	2.2	28
47	Genome analysis of the smallest free-living eukaryote Ostreococcus tauri unveils many unique features. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11647-11652.	7.1	809
48	An investigation of the variation in the transition bias among various animal mitochondrial DNA. Gene, 2005, 355, 58-66.	2.2	53
49	A Broad Survey of Recombination in Animal Mitochondria. Molecular Biology and Evolution, 2004, 21, 2319-2325.	8.9	178
50	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
51	A reanalysis of the indirect evidence for recombination in human mitochondrial DNA. Heredity, 2004, 92, 282-288.	2.6	48
52	Estimating the distribution of fitness effects from DNA sequence data: Implications for the molecular clock. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10335-10340.	7.1	83
53	Hill-Robertson Interference is a Minor Determinant of Variations in Codon Bias Across Drosophila melanogaster and Caenorhabditis elegans Genomes. Molecular Biology and Evolution, 2002, 19, 1399-1406.	8.9	52
54	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

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55	Vanishing GC-Rich Isochores in Mammalian Genomes. Genetics, 2002, 162, 1837-1847.	2.9	157
56	Multiplicative versus additive selection in relation to genome evolution: a simulation study. Genetical Research, 2001, 78, 171-175.	0.9	9
57	High copy numbers of multiple transposable element families in an Australian population of Drosophila simulans. Genetical Research, 2000, 76, 117-119.	0.9	9