

# Yannick P Gueguen

## List of Publications by Year in descending order

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80  
papers

5,238  
citations

70961

41  
h-index

88477

70  
g-index

85  
all docs

85  
docs citations

85  
times ranked

4179  
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into the anti-microbial defense of marine invertebrates: the penaeid shrimps and the oyster <i>Crassostrea gigas</i> . <i>Immunological Reviews</i> , 2004, 198, 149-168.	2.8	431
2	Different secretory repertoires control the biomineralization processes of prism and nacre deposition of the pearl oyster shell. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20986-20991.	3.3	287
3	Immune gene discovery by expressed sequence tags generated from hemocytes of the bacteria-challenged oyster, <i>Crassostrea gigas</i> . <i>Gene</i> , 2003, 303, 139-145.	1.0	221
4	Immune-suppression by OsHV-1 viral infection causes fatal bacteraemia in Pacific oysters. <i>Nature Communications</i> , 2018, 9, 4215.	5.8	217
5	Transcriptome and proteome analysis of <i>Pinctada margaritifera</i> calcifying mantle and shell: focus on biomineralization. <i>BMC Genomics</i> , 2010, 11, 613.	1.2	208
6	Bacterial community characterization of water and intestine of the shrimp <i>Litopenaeus stylirostris</i> in a biofloc system. <i>BMC Microbiology</i> , 2016, 16, 157.	1.3	183
7	Recombinant expression and anti-microbial activity of anti-lipopolysaccharide factor (ALF) from the black tiger shrimp. <i>Developmental and Comparative Immunology</i> , 2005, 29, 841-851.	1.0	177
8	Characterization of a Defensin from the Oyster <i>Crassostrea gigas</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 313-323.	1.6	166
9	PenBase, the shrimp antimicrobial peptide penaeidin database: Sequence-based classification and recommended nomenclature. <i>Developmental and Comparative Immunology</i> , 2006, 30, 283-288.	1.0	152
10	Molecular and Biochemical Characterization of an Endo- $\beta$ -1,3-glucanase of the Hyperthermophilic Archaeon <i>Pyrococcus furiosus</i> . <i>Journal of Biological Chemistry</i> , 1997, 272, 31258-31264.	1.6	130
11	Generation and analysis of a 29,745 unique Expressed Sequence Tags from the Pacific oyster ( <i>Crassostrea gigas</i> ) assembled into a publicly accessible database: the GigasDatabase. <i>BMC Genomics</i> , 2009, 10, 341.	1.2	127
12	Evidence of a bactericidal permeability increasing protein in an invertebrate, the <i>Crassostrea gigas</i> Cg-BPI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17759-17764.	3.3	124
13	Molecular characterization of two isoforms of defensin from hemocytes of the oyster <i>Crassostrea gigas</i> . <i>Developmental and Comparative Immunology</i> , 2007, 31, 332-339.	1.0	116
14	A Very Efficient $\beta$ -Glucosidase Catalyst for the Hydrolysis of Flavor Precursors of Wines and Fruit Juices. <i>Journal of Agricultural and Food Chemistry</i> , 1996, 44, 2336-2340.	2.4	115
15	Antimicrobial peptides in marine invertebrate health and disease. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150300.	1.8	101
16	Gonad transcriptome analysis of pearl oyster <i>Pinctada margaritifera</i> : identification of potential sex differentiation and sex determining genes. <i>BMC Genomics</i> , 2014, 15, 491.	1.2	100
17	Rapid accumulation of an interleukin 17 homolog transcript in <i>Crassostrea gigas</i> hemocytes following bacterial exposure. <i>Developmental and Comparative Immunology</i> , 2008, 32, 1099-1104.	1.0	96
18	Temperature and Food Influence Shell Growth and Mantle Gene Expression of Shell Matrix Proteins in the Pearl Oyster <i>Pinctada margaritifera</i> . <i>PLoS ONE</i> , 2014, 9, e103944.	1.1	92

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19	Evidence in oyster of a plasma extracellular superoxide dismutase which binds LPS. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 1089-1097.	1.0	83
20	NMR structure of <i>ALF<sub>3</sub></i> , an anti-lipopolysaccharide factor from shrimp: Model of the possible lipid binding site. <i>Biopolymers</i> , 2009, 91, 207-220.	1.2	76
21	Oyster hemocytes express a proline-rich peptide displaying synergistic antimicrobial activity with a defensin. <i>Molecular Immunology</i> , 2009, 46, 516-522.	1.0	76
22	Characterization of a Highly Thermostable Alkaline Phosphatase from the Euryarchaeon <i>Pyrococcus abyssi</i> . <i>Applied and Environmental Microbiology</i> , 2001, 67, 4504-4511.	1.4	74
23	Identification of genes associated with shell color in the black-lipped pearl oyster, <i>Pinctada margaritifera</i> . <i>BMC Genomics</i> , 2015, 16, 568.	1.2	74
24	Functional Divergence in Shrimp Anti-Lipopolysaccharide Factors (ALFs): From Recognition of Cell Wall Components to Antimicrobial Activity. <i>PLoS ONE</i> , 2013, 8, e67937.	1.1	73
25	Enhancement of aromatic quality of Muscat wine by the use of immobilized $\beta$ -glucosidase. <i>Journal of Biotechnology</i> , 1997, 55, 151-156.	1.9	66
26	Molecular diversity of antimicrobial effectors in the oyster <i>Crassostrea gigas</i> . <i>BMC Evolutionary Biology</i> , 2010, 10, 23.	3.2	66
27	Identification of genes that are differentially expressed in hemocytes of the Pacific blue shrimp ( <i>Litopenaeus stylirostris</i> ) surviving an infection with <i>Vibrio penaeicida</i> . <i>Physiological Genomics</i> , 2005, 21, 174-183.	1.0	64
28	<i>Pmarg</i> -Pearlin is a Matrix Protein Involved in Nacre Framework Formation in the Pearl Oyster <i>Pinctada margaritifera</i> . <i>ChemBioChem</i> , 2011, 12, 2033-2043.	1.3	61
29	Purification and characterization of an intracellular $\beta$ -glucosidase from a new strain of <i>Leuconostoc mesenteroides</i> isolated from cassava. <i>Journal of Applied Microbiology</i> , 1997, 82, 469-476.	1.4	58
30	Characterization of two DNA polymerases from the hyperthermophilic euryarchaeon <i>Pyrococcus abyssi</i> . <i>FEBS Journal</i> , 2001, 268, 5961-5969.	0.2	58
31	Involvement of penaeidins in defense reactions of the shrimp <i>Litopenaeus stylirostris</i> to a pathogenic vibrio. <i>Cellular and Molecular Life Sciences</i> , 2004, 61, 961-972.	2.4	57
32	Microbiota Composition and Evenness Predict Survival Rate of Oysters Confronted to Pacific Oyster Mortality Syndrome. <i>Frontiers in Microbiology</i> , 2020, 11, 311.	1.5	57
33	A relationship between antimicrobial peptide gene expression and capacity of a selected shrimp line to survive a <i>Vibrio</i> infection. <i>Molecular Immunology</i> , 2008, 45, 3438-3445.	1.0	56
34	Determination of Gender in the Pearl Oyster <i>Pinctada margaritifera</i> . <i>Journal of Shellfish Research</i> , 2011, 30, 231-240.	0.3	55
35	Expression, tissue localization and synergy of antimicrobial peptides and proteins in the immune response of the oyster <i>Crassostrea gigas</i> . <i>Developmental and Comparative Immunology</i> , 2012, 37, 363-370.	1.0	54
36	Purification and characterization of an intracellular $\beta$ -glucosidase from <i>Botrytis cinerea</i> . <i>Enzyme and Microbial Technology</i> , 1995, 17, 900-906.	1.6	50

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37	Genetic and biochemical characterization of a short-chain alcohol dehydrogenase from the hyperthermophilic archaeon <i>Pyrococcus furiosus</i> . <i>FEBS Journal</i> , 2001, 268, 3062-3068.	0.2	50
38	A Sustained Immune Response Supports Long-Term Antiviral Immune Priming in the Pacific Oyster, <i>Crassostrea gigas</i> . <i>MBio</i> , 2020, 11, .	1.8	49
39	Calcein staining of calcified structures in pearl oyster <i>Pinctada margaritifera</i> and the effect of food resource level on shell growth. <i>Aquaculture</i> , 2011, 313, 149-155.	1.7	48
40	Evidence of donor effect on cultured pearl quality from a duplicated grafting experiment on <i>Pinctada margaritifera</i> using wild donors. <i>Aquatic Living Resources</i> , 2012, 25, 269-280.	0.5	48
41	Expression of penaeidin antimicrobial peptides in early larval stages of the shrimp <i>Penaeus vannamei</i> . <i>Developmental and Comparative Immunology</i> , 2003, 27, 283-289.	1.0	44
42	Relative contribution of natural productivity and compound feed to tissue growth in blue shrimp ( <i>Litopenaeus stylirostris</i> ) reared in biofloc: Assessment by C and N stable isotope ratios and effect on key digestive enzymes. <i>Aquaculture</i> , 2015, 448, 288-297.	1.7	43
43	Rearing effect of biofloc on antioxidant and antimicrobial transcriptional response in <i>Litopenaeus stylirostris</i> shrimp facing an experimental sub-lethal hydrogen peroxide stress. <i>Fish and Shellfish Immunology</i> , 2015, 45, 933-939.	1.6	43
44	Differential basal expression of immune genes confers <i>Crassostrea gigas</i> resistance to Pacific oyster mortality syndrome. <i>BMC Genomics</i> , 2020, 21, 63.	1.2	42
45	Characterization of a thermophilic DNA ligase from the archaeon <i>Thermococcus fumicolans</i> . <i>FEMS Microbiology Letters</i> , 2004, 236, 267-273.	0.7	35
46	PCR performance of the highly thermostable proof-reading B-type DNA polymerase from <i>Pyrococcus abyssi</i> . <i>FEMS Microbiology Letters</i> , 2002, 217, 89-94.	0.7	34
47	An updated assessment of <i>Symbiodinium</i> spp. that associate with common scleractinian corals from Moorea (French Polynesia) reveals high diversity among background symbionts and a novel finding of clade B. <i>PeerJ</i> , 2017, 5, e2856.	0.9	34
48	Inefficient immune response is associated with microbial permissiveness in juvenile oysters affected by mass mortalities on field. <i>Fish and Shellfish Immunology</i> , 2018, 77, 156-163.	1.6	32
49	Comparative study of extracellular and intracellular $\beta$ -glucosidases of a new strain of <i>Zygosaccharomyces bailii</i> isolated from fermenting agave juice. <i>Journal of Applied Bacteriology</i> , 1995, 78, 270-280.	1.1	31
50	<i>Pinctada margaritifera</i> responses to temperature and pH: Acclimation capabilities and physiological limits. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 182, 261-269.	0.9	29
51	Characterization of MRNP34, a novel methionine-rich nacre protein from the pearl oysters. <i>Amino Acids</i> , 2012, 42, 2009-2017.	1.2	28
52	Replication Factor C from the Hyperthermophilic Archaeon <i>Pyrococcus abyssi</i> Does Not Need ATP Hydrolysis for Clamp-loading and Contains a Functionally Conserved RFC PCNA-binding Domain. <i>Journal of Molecular Biology</i> , 2002, 323, 795-810.	2.0	27
53	Purification and Characterization of an Intracellular $\beta$ -Glucosidase from <i>Lactobacillus casei</i> ATCC 393. <i>Applied Biochemistry and Biotechnology</i> , 1998, 74, 105-114.	1.4	24
54	Biofouling development and its effect on growth and reproduction of the farmed pearl oyster <i>Pinctada margaritifera</i> . <i>Aquaculture</i> , 2014, 434, 18-26.	1.7	24

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55	Early life microbial exposures shape the <i>Crassostrea gigas</i> immune system for lifelong and intergenerational disease protection. <i>Microbiome</i> , 2022, 10, .	4.9	24
56	Recent advances in bivalve-microbiota interactions for disease prevention in aquaculture. <i>Current Opinion in Biotechnology</i> , 2022, 73, 225-232.	3.3	23
57	Influence of farmed pearl oysters and associated biofouling communities on nutrient regeneration in lagoons of French Polynesia. <i>Aquaculture Environment Interactions</i> , 2014, 5, 209-219.	0.7	23
58	Molecular Signatures Discriminating the Male and the Female Sexual Pathways in the Pearl Oyster <i>Pinctada margaritifera</i> . <i>PLoS ONE</i> , 2015, 10, e0122819.	1.1	22
59	Effect of temperature, food availability, and estradiol injection on gametogenesis and gender in the pearl oyster <i>Pinctada margaritifera</i> . <i>Journal of Experimental Zoology</i> , 2016, 325, 13-24.	1.2	21
60	Characterization of a thermophilic DNA ligase from the archaeon <i>Thermococcus fumicolans</i> . <i>FEMS Microbiology Letters</i> , 2004, 236, 267-273.	0.7	21
61	Transcriptional Regulation in the Hyperthermophilic Archaeon <i>Pyrococcus furiosus</i> : Coordinated Expression of Divergently Oriented Genes in Response to $\beta$ -Linked Glucose Polymers. <i>Journal of Bacteriology</i> , 1999, 181, 3777-3783.	1.0	21
62	Characterization of the maltooligosyl trehalose synthase from the thermophilic archaeon <i>Sulfolobus acidocaldarius</i> . <i>FEMS Microbiology Letters</i> , 2001, 194, 201-206.	0.7	20
63	Impact of pCO <sub>2</sub> on the energy, reproduction and growth of the shell of the pearl oyster <i>Pinctada margaritifera</i> . <i>Estuarine, Coastal and Shelf Science</i> , 2016, 182, 274-282.	0.9	19
64	Response of the pearl oyster <i>Pinctada margaritifera</i> to cadmium and chromium: Identification of molecular biomarkers. <i>Marine Pollution Bulletin</i> , 2017, 118, 420-426.	2.3	19
65	Use of Natural Antimicrobial Peptides and Bacterial Biopolymers for Cultured Pearl Production. <i>Marine Drugs</i> , 2015, 13, 3732-3744.	2.2	16
66	Yes, it turns: experimental evidence of pearl rotation during its formation. <i>Royal Society Open Science</i> , 2015, 2, 150144.	1.1	14
67	Contribution of Viral Genomic Diversity to Oyster Susceptibility in the Pacific Oyster Mortality Syndrome. <i>Frontiers in Microbiology</i> , 2020, 11, 1579.	1.5	14
68	Molecular characterization of penaeidins from two Atlantic brazilian shrimp species, <i>Farfantepenaeus paulensis</i> and <i>Litopenaeus schmitti</i> . <i>FEMS Microbiology Letters</i> , 2005, 250, 117-120.	0.7	13
69	In situ characterisation of pathogen dynamics during a Pacific oyster mortality syndrome episode. <i>Marine Environmental Research</i> , 2021, 165, 105251.	1.1	12
70	Molecular detection of betanodavirus from the farmed fish, <i>Platax orbicularis</i> (Forsskal) (Ephippidae), in French Polynesia. <i>Journal of Fish Diseases</i> , 2010, 33, 451-454.	0.9	11
71	Purification and Characterization of an Intracellular $\beta$ -Glucosidase from a <i>Candida sake</i> Strain Isolated from Fruit Juices. <i>Applied Biochemistry and Biotechnology</i> , 2001, 95, 151-162.	1.4	8
72	Integrated management of pearl culture in French Polynesia in the context of global change: Synopsis of existing results. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 182, 229-234.	0.9	8

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73	Comment on "The first description of an archaeal hemicellulase: the xylanase from <i>Thermococcus zilligii</i> strain AN1": evidence that the unique N-terminal sequence proposed comes from a maltodextrin phosphorylase. <i>Extremophiles</i> , 2002, 6, 349-350.	0.9	7
74	Development of in situ hybridisation using 16S rRNA gene to monitor black-lip pearl oyster, <i>Pinctada margaritifera</i> , larvae in plankton samples. <i>Aquatic Living Resources</i> , 2011, 24, 27-34.	0.5	6
75	Enzymatic synthesis of dodecyl- $\beta$ -D-glucopyranoside catalyzed by <i>Candida molischiana</i> 35M5N $\beta$ -glucosidase. <i>Bioresource Technology</i> , 1995, 53, 263-267.	4.8	5
76	Seaweeds influence oyster microbiota and disease susceptibility. <i>Journal of Animal Ecology</i> , 2022, 91, 805-818.	1.3	4
77	Effect of electrolysis treatment on the biomineralization capacities of pearl oyster <i>Pinctada margaritifera</i> juveniles. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 182, 235-242.	0.9	3
78	Efficient and long-lasting protection against the pacific oyster mortality syndrome through antiviral immune priming. <i>Fish and Shellfish Immunology</i> , 2019, 91, 461.	1.6	3
79	Use of $\beta$ -Glucosidase in the Development of Flavor in Wines and Fruit Juices. <i>Methods in Biotechnology</i> , 1999, , 323-331.	0.2	2
80	Non-invasive functional exploration techniques for bivalves with applications to pearl oyster <i>Pinctada margaritifera</i> . <i>Reviews in Aquaculture</i> , 2020, 12, 1783.	4.6	1