Raul Bettencourt

List of Publications by Year in descending order

48 papers	1,459 citations	361413 20 h-index	345221 36 g-index
52 all docs	52 docs citations	52 times ranked	1626 citing authors

#	Article	IF	Citations
1	Hemolingene silencing by ds-RNA injected into Cecropia pupae is lethal to next generation embryos. Insect Molecular Biology, 2002, 11, 267-271.	2.0	148
2	Experimentally induced endosymbiont loss and re-acquirement in the hydrothermal vent bivalve Bathymodiolus azoricus. Journal of Experimental Marine Biology and Ecology, 2005, 318, 99-110.	1.5	118
3	High-throughput sequencing and analysis of the gill tissue transcriptome from the deep-sea hydrothermal vent mussel Bathymodiolus azoricus. BMC Genomics, 2010, 11, 559.	2.8	114
4	Regulation of the Insect Immune Response: The Effect of Hemolin on Cellular Immune Mechanisms. Cellular Immunology, 1996, 169, 47-54.	3.0	91
5	Identifying Toxic Impacts of Metals Potentially Released during Deep-Sea Miningâ€"A Synthesis of the Challenges to Quantifying Risk. Frontiers in Marine Science, 0, 4, .	2.5	84
6	Cell Adhesion Properties of Hemolin, an Insect Immune Protein in the Ig Superfamily. FEBS Journal, 1997, 250, 630-637.	0.2	61
7	RNA interference of Hemolin causes depletion of phenoloxidase activity in Hyalophora cecropia. Developmental and Comparative Immunology, 2007, 31, 571-575.	2.3	56
8	Influence of CH₄ and H₂S availability on symbiont distribution, carbon assimilation and transfer in the dual symbiotic vent mussel <i>Bathymodiolus azoricus</i>. Biogeosciences, 2008, 5, 1681-1691.	3.3	51
9	Hemolymph-dependent and -independent responses inDrosophila immune tissue. Journal of Cellular Biochemistry, 2004, 92, 849-863.	2.6	46
10	Molecular mechanisms underlying the physiological responses of the cold-water coral Desmophyllum dianthus to ocean acidification. Coral Reefs, 2014, 33, 465-476.	2.2	46
11	Microbial diversity in deep-sea sediments from the Menez Gwen hydrothermal vent system of the Mid-Atlantic Ridge. Marine Genomics, 2015, 24, 343-355.	1.1	46
12	Innate immunity in the deep sea hydrothermal vent mussel Bathymodiolus azoricus. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 152, 278-289.	1.8	43
13	The insect immune protein hemolin is expressed during oogenesis and embryogenesis. Mechanisms of Development, 2000, 95, 301-304.	1.7	40
14	Physiological impacts of acute Cu exposure on deep-sea vent mussel Bathymodiolus azoricus under a deep-sea mining activity scenario. Aquatic Toxicology, 2017, 193, 40-49.	4.0	40
15	Implications of hemolin glycosylation and Ca2+-binding on homophilic and cellular interactions. FEBS Journal, 1999, 266, 964-976.	0.2	36
16	Comparative study of immune responses in the deep-sea hydrothermal vent mussel Bathymodiolus azoricus and the shallow-water mussel Mytilus galloprovincialis challenged with Vibrio bacteria. Fish and Shellfish Immunology, 2014, 40, 485-499.	3.6	33
17	Deep sea immunity: Unveiling immune constituents from the hydrothermal vent mussel Bathymodiolus azoricus. Marine Environmental Research, 2007, 64, 108-127.	2.5	31
18	Sediment Microbial Diversity of Three Deep-Sea Hydrothermal Vents Southwest of the Azores. Microbial Ecology, 2017, 74, 332-349.	2.8	31

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19	Toll and Toll-9 in <I>Drosophila</I> innate immune response. Journal of Endotoxin Research, 2004, 10, 261-268.	2.5	30
20	Dispersal of Steinernema glaseri (Nematoda: Steinernematidae) in adult Japanese beetles, Popillia japonica (Coleoptera: Scarabaeidae). Biocontrol Science and Technology, 1995, 5, 121-130.	1.3	28
21	Metagenomic Signatures of Microbial Communities in Deep-Sea Hydrothermal Sediments of Azores Vent Fields. Microbial Ecology, 2018, 76, 387-403.	2.8	25
22	Changes of gill and hemocyte-related bio-indicators during long term maintenance of the vent mussel Bathymodiolus azoricus held in aquaria at atmospheric pressure. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 150, 1-7.	1.8	23
23	The Transcriptome of Bathymodiolus azoricus Gill Reveals Expression of Genes from Endosymbionts and Free-Living Deep-Sea Bacteria. Marine Drugs, 2012, 10, 1765-1783.	4.6	21
24	Site-related differences in gene expression and bacterial densities in the mussel Bathymodiolus azoricus from the Menez Gwen and Lucky Strike deep-sea hydrothermal vent sites. Fish and Shellfish Immunology, 2014, 39, 343-353.	3.6	21
25	Post-capture immune gene expression studies in the deep-sea hydrothermal vent mussel Bathymodiolus azoricus acclimatized to atmospheric pressure. Fish and Shellfish Immunology, 2015, 42, 159-170.	3.6	21
26	LabHorta: a controlled aquarium system for monitoring physiological characteristics of the hydrothermal vent mussel Bathymodiolus azoricus. ICES Journal of Marine Science, 2011, 68, 349-356.	2.5	17
27	Activity of antioxidant enzymes in response to atmospheric pressure induced physiological stress in deep-sea hydrothermal vent mussel Bathymodiolus azoricus. Marine Environmental Research, 2016, 114, 65-73.	2.5	14
28	Factors influencing parasitism of adult Japanese beetles,Polillia japonica (Col.: Scarabaeidae) by entomopathogenic nematodes. Entomophaga, 1993, 38, 501-509.	0.2	13
29	Out of the deep sea into a land-based aquarium environment: investigating physiological adaptations in the hydrothermal vent mussel Bathymodiolus azoricus. ICES Journal of Marine Science, 2011, 68, 357-364.	2.5	11
30	Rapid polymerase chain reactionâ€“restriction fragment length polymorphism method for discrimination of the two Atlantic cryptic deepâ€sea species of scabbardfish. Molecular Ecology Resources, 2009, 9, 528-530.	4.8	10
31	Transcriptome of the Deep-Sea Black Scabbardfish,Aphanopus carbo(Perciformes: Trichiuridae): Tissue-Specific Expression Patterns and Candidate Genes Associated to Depth Adaptation. International Journal of Genomics, 2014, 2014, 1-21.	1.6	10
32	Molecular mechanisms underlying responses of the Antarctic coral Malacobelemnon daytoni to ocean acidification. Marine Environmental Research, 2021, 170, 105430.	2.5	10
33	Finding immune gene expression differences induced by marine bacterial pathogens in the Deep-sea hydrothermal vent mussel <i>Bathymodiolus azoricus</i>. Biogeosciences, 2013, 10, 7279-7291.	3.3	9
34	Vibrio diabolicus challenge in Bathymodiolus azoricus populations from Menez Gwen and Lucky Strike hydrothermal vent sites. Fish and Shellfish Immunology, 2015, 47, 962-977.	3.6	9
35	Learning the Codes of Fly Immunity. Molecular Cell, 2004, 13, 1-2.	9.7	8
36	Is the deep-sea crab Chaceon affinis able to induce a thermal stress response?. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 181, 54-61.	1.8	7

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37	Ocean acidification effects on the stress response in a calcifying antarctic coastal organism: The case of Nacella concinna ecotypes. Marine Pollution Bulletin, 2021, 166, 112218.	5.0	6
38	Bacterial Diversity at a Shallow-Water Hydrothermal Vent (Espalamaca) in Azores Island. Current Science, 2018, 115, 2110.	0.8	6
39	The influence of nutritional conditions on metal uptake by the mixotrophic dual symbiosis harboring vent mussel Bathymodiolus azoricus. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2011, 153, 40-52.	2.6	4
40	Gene expression study in Bathymodiolus azoricus populations from three North Atlantic hydrothermal vent sites. Developmental and Comparative Immunology, 2019, 99, 103390.	2.3	4
41	Vibrio diabolicus Immunomodulatory Effects on Bathymodiolus azoricus During Long-term Acclimatization at Atmospheric Pressure. Journal of Aquaculture Research & Development, 2016, 7, .	0.4	4
42	Molecular insights indicate that Pachycara thermophilum (Geistdoerfer, 1994) and P. saldanhai (Biscoito and Almeida, 2004) (Perciformes: Zoarcidae) from the Mid-Atlantic Ridge are synonymous species. Molecular Phylogenetics and Evolution, 2007, 45, 423-426.	2.7	3
43	Metatranscriptomics profile of the gill microbial community during Bathymodiolus azoricus aquarium acclimatization at atmospheric pressure. AIMS Microbiology, 2018, 4, 240-260.	2.2	3
44	Ultrastructural and molecular evidence for potentially symbiotic bacteria within the byssal plaques of the deep-sea hydrothermal vent mussel Bathymodiolus azoricus. BioMetals, 2008, 21, 395-404.	4.1	2
45	An Insightful Model to Study Innate Immunity and Stress Response in Deepâ€Sea Vent Animals: Profiling the Mussel Bathymodiolus azoricus. , 0, , .		2
46	G2.P7 Hemolin, an immunoglobulin like insect immune protein is both freely circulating and membrane bound. Developmental and Comparative Immunology, 1994, 18, S131.	2.3	1
47	G2.8 Insect immunity: The role of hemolin on the hemocyte activity in Hyalophora cecropia. Developmental and Comparative Immunology, 1994, 18, S124.	2.3	0
48	A tour through high pressure and atmospheric ecosystems: Immune responses in hydrothermal vent Bathymodiouls azoricus and Mediterranean Mytilus galloprovincialis mussels. Fish and Shellfish Immunology, 2013, 34, 1644.	3.6	0