Carlos Angulo

List of Publications by Citations

97 papers	1,093 citations	18 h-index	27 g-index
110 ext. papers	1,462 ext. citations	3.7 avg, IF	4.98 L-index

#	Paper	IF	Citations
97	A novel design of a multi-antigenic, multistage and multi-epitope vaccine against Helicobacter pylori: An in silico approach. *Infection, Genetics and Evolution*, **2017**, 49, 309-317	4.5	88
96	Food-Grade Organisms as Vaccine Biofactories and Oral Delivery Vehicles. *Trends in Biotechnology*, **2016**, 34, 124-136	15.1	61
95	Dietary administration of microalgae alone or supplemented with Lactobacillus sakei affects immune response and intestinal morphology of Pacific red snapper (Lutjanus peru). *Fish and Shellfish Immunology*, **2014**, 40, 208-16	4.3	61
94	Biocontrol activity of the marine yeast Debaryomyces hansenii against phytopathogenic fungi and its ability to inhibit mycotoxins production in maize grain (Zea mays L.). *Biological Control*, **2016**, 97, 70-79	3.8	36
93	Humoral immune response and TLR9 gene expression in Pacific red snapper (Lutjanus peru) experimentally exposed to Aeromonas veronii. *Fish and Shellfish Immunology*, **2015**, 42, 289-96	4.3	27
92	The potential use of Debaryomyces hansenii for the biological control of pathogenic fungi in food. *Biological Control*, **2018**, 121, 216-222	3.8	24
91	Effect of mixed-Bacillus spp isolated from pustulose ark Anadara tuberculosa on growth, survival, viral prevalence and immune-related gene expression in shrimp Litopenaeus vannamei. *Fish and Shellfish Immunology*, **2016**, 59, 95-102	4.3	24
90	Antioxidant, intestinal immune status and anti-inflammatory potential of Chenopodium ambrosioides L. in fish: In vitro and in vivo studies. *Fish and Shellfish Immunology*, **2019**, 86, 420-428	4.3	24
89	Marine yeasts and bacteria as biological control agents against anthracnose on mango. *Journal of Phytopathology*, **2017**, 165, 833-840	1.8	23
88	Antioxidant screening and phenolic content of ethanol extracts of selected Baja California Peninsula macroalgae. *Journal of Food Science and Technology*, **2017**, 54, 422-429	3.3	22
87	Expression of an immunogenic LTB-based chimeric protein targeting Zaire ebolavirus epitopes from GP1 in plant cells. *Plant Cell Reports*, **2017**, 36, 355-365	5.1	22
86	Chikungunya virus vaccines: Current strategies and prospects for developing plant-made vaccines. *Vaccine*, **2015**, 33, 3650-8	4.1	22
85	Debaryomyces hansenii up regulates superoxide dismutase gene expression and enhances the immune response and survival in Pacific red snapper (Lutjanus peru) leukocytes after Vibrio parahaemolyticus infection. *Developmental and Comparative Immunology*, **2017**, 71, 18-27	3.2	21
84	Bacillus subtilis comes of age as a vaccine production host and delivery vehicle. *Expert Review of Vaccines*, **2015**, 14, 1135-48	5.2	21
83	Gold nanoparticles (AuNP) exert immunostimulatory and protective effects in shrimp (Litopenaeus vannamei) against Vibrio parahaemolyticus. *Fish and Shellfish Immunology*, **2019**, 84, 756-767	4.3	21
82	Leukocyte susceptibility and immune response against Vibrio parahaemolyticus in Totoaba macdonaldi. *Developmental and Comparative Immunology*, **2016**, 65, 258-267	3.2	20
81	A Perspective on the Development of Plant-Made Vaccines in the Fight against Ebola Virus. *Frontiers in Immunology*, **2017**, 8, 252	8.4	19

80	Molecular cloning and comparative responses of Toll-like receptor 22 following ligands stimulation and parasitic infection in yellowtail (Seriola lalandi). *Fish and Shellfish Immunology*, **2015**, 46, 323-33	4.3	18
79	Dietary yeast Sterigmatomyces halophilus enhances mucosal immunity of gilthead seabream (Sparus aurata L.). *Fish and Shellfish Immunology*, **2017**, 64, 165-175	4.3	17
78	New trends in innovative vaccine development against Actinobacillus pleuropneumoniae. *Veterinary Microbiology*, **2018**, 217, 66-75	3.3	17
77	B-cell activating CpG ODN 1668 enhance the immune response of Pacific red snapper (Lutjanus peru) exposed to Vibrio parahaemolitycus. *Developmental and Comparative Immunology*, **2016**, 62, 72-81	3.2	17
76	Algevir: An Expression System for Microalgae Based on Viral Vectors. *Frontiers in Microbiology*, **2017**, 8, 1100	5.7	16
75	Sterigmatomyces halophilus β-glucan improves the immune response and bacterial resistance in Pacific red snapper (Lutjanus peru) peripheral blood leucocytes: In vitro study. *Fish and Shellfish Immunology*, **2018**, 78, 392-403	4.3	15
74	Evaluation of ToxA and Vibrio parahaemolyticus lysate on humoral immune response and immune-related genes in Pacific red snapper. *Fish and Shellfish Immunology*, **2016**, 56, 310-321	4.3	15
73	Debaryomyces hansenii CBS 8339 β-glucan enhances immune responses and down-stream gene signaling pathways in goat peripheral blood leukocytes. *Developmental and Comparative Immunology*, **2018**, 88, 173-182	3.2	15
72	In´vitro immunostimulatory potential of fungal β-glucans in pacific red snapper (Lutjanus peru) cells. *Developmental and Comparative Immunology*, **2017**, 77, 350-358	3.2	15
71	Marine yeast Yarrowia lipolytica improves the immune responses in Pacific red snapper (Lutjanus peru) leukocytes. *Fish and Shellfish Immunology*, **2017**, 70, 48-56	4.3	15
70	TLR21 agonists in combination with Aeromonas antigens synergistically up-regulate functional TLR21 and cytokine gene expression in yellowtail leucocytes. *Developmental and Comparative Immunology*, **2016**, 61, 107-15	3.2	15
69	Prospects on the Use of sp. to Develop Oral Vaccines. *Frontiers in Microbiology*, **2018**, 9, 2506	5.7	15
68	Immobilizing yeast β-glucan on zinc-layered hydroxide nanoparticle improves innate immune response in fish leukocytes. *Fish and Shellfish Immunology*, **2018**, 82, 504-513	4.3	15
67	Methylmercury, cadmium and arsenic(III)-induced toxicity, oxidative stress and apoptosis in Pacific red snapper leukocytes. *Aquatic Toxicology*, **2019**, 213, 105223	5.1	14
66	Biosynthesis of β-d-glucan-gold nanoparticles, cytotoxicity and oxidative stress in mouse splenocytes. *International Journal of Biological Macromolecules*, **2019**, 134, 379-389	7.9	14
65	Probiotic effects of marine Debaryomyces hansenii CBS 8339 on innate immune and antioxidant parameters in newborn goats. *Applied Microbiology and Biotechnology*, **2019**, 103, 2339-2352	5.7	14
64	Recombinant PirA-like toxin protects shrimp against challenge with Vibrio parahaemolyticus, the aetiological agent of acute hepatopancreatic necrosis disease. *Journal of Fish Diseases*, **2017**, 40, 1725-1729	2.6	13
63	In silico epitope analysis of unique and membrane associated proteins from Mycobacterium avium subsp. paratuberculosis for immunogenicity and vaccine evaluation. *Journal of Theoretical Biology*, **2015**, 384, 1-9	2.3	13

62	Effect of a Synbiotic Mix on Intestinal Structural Changes, and Typhimurium and Colonization in Broiler Chickens. *Animals*, **2019**, 9,	3.1	13
61	Expression of the VP40 antigen from the Zaire ebolavirus in tobacco plants. *Planta*, **2017**, 246, 123-132	4.7	12
60	Plant extracts as a natural treatment against the fish ectoparasite Neobenedenia sp. (Monogenea: Capsalidae). *Journal of Helminthology*, **2019**, 93, 57-65	1.6	12
59	Probiotic properties and fatty acid composition of the yeast Kluyveromyces lactis M3. In vivo immunomodulatory activities in gilthead seabream (Sparus aurata). *Fish and Shellfish Immunology*, **2019**, 94, 389-397	4.3	11
58	Oral administration of Debaryomyces hansenii CBS8339-Eglucan induces trained immunity in newborn goats. *Developmental and Comparative Immunology*, **2020**, 105, 103597	3.2	11
57	Immunostimulant effects and potential application of Eglucans derived from marine yeast Debaryomyces hansenii in goat peripheral blood leucocytes. *International Journal of Biological Macromolecules*, **2018**, 116, 599-606	7.9	11
56	Caspase -1, -3, -8 and antioxidant enzyme genes are key molecular effectors following Vibrio parahaemolyticus and Aeromonas veronii infection in fish leukocytes. *Immunobiology*, **2018**, 223, 562-576	3.4	10
55	Probiotic and nutritional effects of Debaryomyces hansenii on animals. *Applied Microbiology and Biotechnology*, **2020**, 104, 7689-7699	5.7	10
54	In vivo and in´vitro studies using larval and adult antigens from Neobenedenia melleni on immune response in yellowtail (Seriola lalandi). *Journal of Fish Diseases*, **2017**, 40, 1497-1509	2.6	9
53	An overview of nanogel-based vaccines. *Expert Review of Vaccines*, **2019**, 18, 951-968	5.2	9
52	Effects of pregnancy and post-kidding stages on haematochemical parameters in cross-bred goats. *Journal of Applied Animal Research*, **2018**, 46, 269-273	1.7	9
51	Antioxidant and immunostimulant potentials of Chenopodium ambrosioides L. in Pacific red snapper (Lutjanus peru). *Aquaculture*, **2019**, 513, 734414	4.4	9
50	Enhancing gilthead seabream immune status and protection against bacterial challenge by means of antigens derived from Vibrio parahaemolyticus. *Fish and Shellfish Immunology*, **2017**, 60, 205-218	4.3	9
49	Production of specific dsRNA against white spot syndrome virus in the yeast Yarrowia lipolytica. *Aquaculture Research*, **2018**, 49, 480-491	1.9	9
48	Biosprospecting potential of kelp (Laminariales, Phaeophyceae) from Baja California Peninsula: phenolic content, antioxidant properties, anti-inflammatory, and cell viability. *Journal of Applied Phycology*, **2019**, 31, 3115-3129	3.2	8
47	Molecular characterization and expression analyses of toll like receptor-5 induced by Vibrio parahaemolyticus antigens in Pacific red snapper. *Fish and Shellfish Immunology*, **2017**, 68, 180-189	4.3	8
46	C-type lectin 17A and macrophage-expressed receptor genes are magnified by fungal Eglucan after Vibrio parahaemolyticus infection in Totoaba macdonaldi cells. *Immunobiology*, **2019**, 224, 102-109	3.4	8
45	Corn-based vaccines: current status and prospects. *Planta*, **2017**, 245, 875-888	4.7	7

44	Developing oral nanovaccines for fish: a modern trend to fight infectious diseases. *Reviews in Aquaculture*, **2020**, 13, 1172	8.9	7
43	Dietary fulvic acid effects on survival and expression of immune-related genes in Litopenaeus vannamei challenged with Vibrio parahaemolyticus. *Aquaculture Research*, **2018**, 49, 3218-3227	1.9	7
42	A multi-epitope plant-made chimeric protein (LTBentero) targeting common enteric pathogens is immunogenic in mice. *Plant Molecular Biology*, **2020**, 102, 159-169	4.6	7
41	Dietary supplementation of marine yeast Yarrowia lipolytica modulates immune response in Litopenaeus vannamei. *Fish and Shellfish Immunology*, **2020**, 105, 469-476	4.3	7
40	Design of a multiepitopic Zaire ebolavirus protein and its expression in plant cells. *Journal of Biotechnology*, **2019**, 295, 41-48	3.7	6
39	An overview of tuberculosis plant-derived vaccines. *Expert Review of Vaccines*, **2015**, 14, 877-89	5.2	6
38	Phytochemical composition and immunobiological activity of Hawthorn Crataegus mexicana nanoencapsulated in Longfin yellowtail Seriola rivoliana leukocytes. *Fish and Shellfish Immunology*, **2019**, 92, 308-314	4.3	5
37	Assessment of chemical, biological and immunological properties of "Damiana de California" Turnera diffusa Willd extracts in Longfin yellowtail (Seriola rivoliana) leukocytes. *Fish and Shellfish Immunology*, **2020**, 100, 418-426	4.3	5
36	Effects of temperature on the life cycle of Neobenedenia sp. (Monogenea: Capsalidae) from Seriola rivoliana (Almaco jack) in Bahía de La Paz, BCS Mexico. *Parasitology Research*, **2019**, 118, 3267-3277	2.4	5
35	Probiotic and Immunomodulatory Activity of Marine Yeast Yarrowia lipolytica Strains and Response Against Vibrio parahaemolyticus in Fish. *Probiotics and Antimicrobial Proteins*, **2021**, 13, 1292-1305	5.5	5
34	Antiporter NHX2 differentially induced in Mesembryanthemum crystallinum natural genetic variant under salt stress. *Plant Cell, Tissue and Organ Culture*, **2016**, 124, 361-375	2.7	4
33	Control of AHPND by phages: a promising biotechnological approach. *Reviews in Aquaculture*, **2019**, 11, 989-1004	8.9	4
32	Class B CpG-ODN2006 is highly associated with IgM and antimicrobial peptide gene expression through TLR9 pathway in yellowtail Seriola lalandi. *Fish and Shellfish Immunology*, **2018**, 77, 71-82	4.3	3
31	Green synthesis of gold nanoparticles using Turnera diffusa Willd enhanced antimicrobial properties and immune response in Longfin yellowtail leukocytes. *Aquaculture Research*, **2021**, 52, 3391-3402	1.9	3
30	Efficacy of the corn smut-made CTB oral vaccine on mucosal immune parameters in Pacific red snapper (Lutjanus peru). *Aquaculture*, **2019**, 503, 403-411	4.4	2
29	Two Promoters of Beta-Glucosidase Paralogs (ZmBGlu2 and ZmBGlu5) Highly Active in Tropical Young Maize Hybrid Seedlings. *Plant Molecular Biology Reporter*, **2015**, 33, 1666-1674	1.7	2
28	Immunostimulatory and antioxidant effects of supplemental feeding with macroalga Sargassum spp. on goat kids. *Tropical Animal Health and Production*, **2020**, 52, 2023-2033	1.7	2
27	First screening report of immune and protective effect of non-toxic Jatropha vernicosa stem bark against Vibrio parahaemolyticus in Longfin yellowtail Seriola rivoliana leukocytes. *Fish and Shellfish Immunology*, **2020**, 101, 106-114	4.3	2

26	Characterization of nuclear factor of activated T-cells-c3 (NFATc3) and gene expression of upstream-downstream signaling molecules in response to immunostimulants in Pacific red snapper cells. *Developmental and Comparative Immunology*, **2018**, 78, 149-159	3.2	2
25	Plant-Based Vaccines: Antigen Design, Diversity, and Strategies for High Level Production.. *Vaccines* , **2022**, 10,	5.3	2
24	D-glucan from marine yeast Debaryomyces hansenii BCS004 enhanced intestinal health and glucan-expressed receptor genes in Pacific red snapper Lutjanus peru. *Microbial Pathogenesis*, **2020** , 143, 104141	3.8	2
23	Bacillus licheniformis BCR 4-3 increases immune response and survival of Litopenaeus vannamei challenged with Vibrio parahaemolyticus IPNGS16. *Aquaculture International*, **2020**, 28, 2303-2318	2.6	2
22	Plant-made vaccines against parasites: bioinspired perspectives to fight against Chagas disease. *Expert Review of Vaccines*, **2021**, 1-16	5.2	2
21	Changes in transferrin gene expression after exposure to iron and Aeromonas hydrophila infection in yellow snapper (Lutjanus argentiventris). *Agri Gene*, **2016**, 1, 79-87	1.9	2
20	Yarrowia lipolytica N6-glucan protects goat leukocytes against Escherichia coli by enhancing phagocytosis and immune signaling pathway genes. *Microbial Pathogenesis*, **2021**, 150, 104735	3.8	2
19	Composition, antioxidant capacity, intestinal, and immunobiological effects of oregano (Lippia palmeri Watts) in goats: preliminary in vitro and in vivo studies. *Tropical Animal Health and Production*, **2021**, 53, 101	1.7	2
18	Environmental Factors Favoring the Proliferation ofAedes aegypti(Linnaeus 1762) Larvae in Livestock Water Troughs at a Suburban Area of La Paz, Mexico. *Southwestern Entomologist*, **2017**, 42, 795-803	0.3	1
17	Genetically-engineered plants yield an orally immunogenic PirA-like toxin from Vibrio parahaemolyticus. *International Journal of Biological Macromolecules*, **2019**, 137, 126-131	7.9	1
16	Bacterial biofilm-derived antigens: a new strategy for vaccine development against infectious diseases. *Expert Review of Vaccines*, **2021**, 20, 385-396	5.2	1
15	Alfalfa Plants (Medicago sativa L.) Expressing the 85B (MAP1609c) Antigen of Mycobacterium avium subsp. paratuberculosis Elicit Long-Lasting Immunity in Mice. *Molecular Biotechnology*, **2021**, 63, 424-436	3	1
14	Antibacterial and immunomodulatory activity of moringa (Moringa oleifera) seed extract in Longfin yellowtail (Seriola rivoliana) peripheral blood leukocytes. *Aquaculture Research*, **2021**, 52, 4076	1.9	1
13	Probiotic properties of Debaryomyces hansenii BCS004 and their immunostimulatory effect in supplemented diets for gilthead seabream (Sparus aurata). *Aquaculture Research*, **2021**, 52, 2715-2726	1.9	1
12	Yarrowia lipolytica, health benefits for animals. *Applied Microbiology and Biotechnology*, **2021**, 105, 7577-7592	3.7	1
11	Microalgae-made vaccines against infectious diseases. *Algal Research*, **2021**, 58, 102408	5	1
10	Immunostimulant Activity of Bacteria Isolated from Extreme Environments in Baja California Sur, Mexico: A Bioprospecting Approach.. *Indian Journal of Microbiology*, **2022**, 62, 234-241	3.7	0
9	Glucan bioactivities from Cystobasidium benthicum in Totoaba macdonaldi thymus cells. *Fish and Shellfish Immunology*, **2021**, 119, 542-553	4.3	0

List of Publications

8	Biological Synthesis of Monodisperse AuNPs@Damiana with Enhanced Antiseptic Activity Against Gram-Negative Bacteria. *Journal of Inorganic and Organometallic Polymers and Materials*, **2021**, 31, 4018-4024	3.2	0
7	Conjugation of β-glucans on heat-stable enterotoxin (ST) to enhance the immunogenic response in mouse leucocytes. *Materials Science and Engineering C*, **2021**, 118, 111464	8.3	0
6	Nucleobases, Nucleosides and Nucleotides Determination in Yeasts Isolated from Extreme Environments. *Chromatographia*, **2022**, 85, 353-363	2.1	0
5	Evaluation of two in-house immunoenzymatic tests to serodiagnose subclinical paratuberculisis in a sheep flock in Mexicali valley, Mexico. *Journal of Immunoassay and Immunochemistry*, **2017**, 38, 420-429	1.8	
4	Trained immunity against diseases in domestic animals.. *Acta Tropica*, **2022**, 229, 106361	3.2	
3	Rapid production in maize seedlings of the Ag85B antigen of Mycobacterium avium subsp. paratuberculosis using an Agrobacterium-mediated transient expression system. *Plant Cell, Tissue and Organ Culture*, **2020**, 141, 31-40	2.7	
2	Morpho-physiology and Pht1 gene expressions in native maize plants with AM fungi and phosphorus. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, **2020**, 48, 1357-1368	1.2	
1	Identification and morphological characterization of marine actinomycetes as biocontrol agents of Fusarium solani in tomato. *Revista De La Facultad De Agronomia*, **2021**, 39, e223915	0.2	