

Carlos Angulo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Plant-Based Vaccines: Antigen Design, Diversity, and Strategies for High Level Production.. <i>Vaccines</i> , 2022 , 10,	5.3	2
96	Immunostimulant Activity of Bacteria Isolated from Extreme Environments in Baja California Sur, Mexico: A Bioprospecting Approach.. <i>Indian Journal of Microbiology</i> , 2022 , 62, 234-241	3.7	0
95	Trained immunity against diseases in domestic animals.. <i>Acta Tropica</i> , 2022 , 229, 106361	3.2	
94	Nucleobases, Nucleosides and Nucleotides Determination in Yeasts Isolated from Extreme Environments. <i>Chromatographia</i> , 2022 , 85, 353-363	2.1	0
93	EGlucan bioactivities from <i>Cystobasidium benthicum</i> in <i>Totoaba macdonaldi</i> thymus cells. <i>Fish and Shellfish Immunology</i> , 2021 , 119, 542-553	4.3	0
92	Plant-made vaccines against parasites: bioinspired perspectives to fight against Chagas disease. <i>Expert Review of Vaccines</i> , 2021 , 1-16	5.2	2
91	Bacterial biofilm-derived antigens: a new strategy for vaccine development against infectious diseases. <i>Expert Review of Vaccines</i> , 2021 , 20, 385-396	5.2	1
90	Alfalfa Plants (<i>Medicago sativa</i> L.) Expressing the 85B (MAP1609c) Antigen of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> Elicit Long-Lasting Immunity in Mice. <i>Molecular Biotechnology</i> , 2021 , 63, 424-436	3	1
89	Antibacterial and immunomodulatory activity of moringa (<i>Moringa oleifera</i>) seed extract in Longfin yellowtail (<i>Seriola rivoliana</i>) peripheral blood leukocytes. <i>Aquaculture Research</i> , 2021 , 52, 4076	1.9	1
88	Biological Synthesis of Monodisperse AuNPs@Damiana with Enhanced Antiseptic Activity Against Gram-Negative Bacteria. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 4018-4024	3.2	0
87	Conjugation of EGlucans on heat-stable enterotoxin (ST) to enhance the immunogenic response in mouse leucocytes. <i>Materials Science and Engineering C</i> , 2021 , 118, 111464	8.3	0
86	<i>Yarrowia lipolytica</i> N6-glucan protects goat leukocytes against <i>Escherichia coli</i> by enhancing phagocytosis and immune signaling pathway genes. <i>Microbial Pathogenesis</i> , 2021 , 150, 104735	3.8	2
85	Composition, antioxidant capacity, intestinal, and immunobiological effects of oregano (<i>Lippia palmeri</i> Watts) in goats: preliminary in vitro and in vivo studies. <i>Tropical Animal Health and Production</i> , 2021 , 53, 101	1.7	2
84	Probiotic properties of <i>Debaryomyces hansenii</i> BCS004 and their immunostimulatory effect in supplemented diets for gilthead seabream (<i>Sparus aurata</i>). <i>Aquaculture Research</i> , 2021 , 52, 2715-2726	1.9	1
83	Green synthesis of gold nanoparticles using <i>Turnera diffusa</i> Willd enhanced antimicrobial properties and immune response in Longfin yellowtail leukocytes. <i>Aquaculture Research</i> , 2021 , 52, 3391-3402	1.9	3
82	Probiotic and Immunomodulatory Activity of Marine Yeast <i>Yarrowia lipolytica</i> Strains and Response Against <i>Vibrio parahaemolyticus</i> in Fish. <i>Probiotics and Antimicrobial Proteins</i> , 2021 , 13, 1292-1305	5.5	5
81	<i>Yarrowia lipolytica</i> , health benefits for animals. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 7577-7592	5.7	1

80	Microalgae-made vaccines against infectious diseases. <i>Algal Research</i> , 2021 , 58, 102408	5	1
79	Identification and morphological characterization of marine actinomycetes as biocontrol agents of <i>Fusarium solani</i> in tomato. <i>Revista De La Facultad De Agronomia</i> , 2021 , 39, e223915	0.2	
78	Developing oral nanovaccines for fish: a modern trend to fight infectious diseases. <i>Reviews in Aquaculture</i> , 2020 , 13, 1172	8.9	7
77	Assessment of chemical, biological and immunological properties of "Damiana de California" <i>Turnera diffusa</i> Willd extracts in Longfin yellowtail (<i>Seriola rivoliana</i>) leukocytes. <i>Fish and Shellfish Immunology</i> , 2020 , 100, 418-426	4.3	5
76	Immunostimulatory and antioxidant effects of supplemental feeding with macroalga <i>Sargassum</i> spp. on goat kids. <i>Tropical Animal Health and Production</i> , 2020 , 52, 2023-2033	1.7	2
75	First screening report of immune and protective effect of non-toxic <i>Jatropha vernicosa</i> stem bark against <i>Vibrio parahaemolyticus</i> in Longfin yellowtail <i>Seriola rivoliana</i> leukocytes. <i>Fish and Shellfish Immunology</i> , 2020 , 101, 106-114	4.3	2
74	ED-glucan from marine yeast <i>Debaryomyces hansenii</i> BCS004 enhanced intestinal health and glucan-expressed receptor genes in Pacific red snapper <i>Lutjanus peru</i> . <i>Microbial Pathogenesis</i> , 2020 , 143, 104141	3.8	2
73	Rapid production in maize seedlings of the Ag85B antigen of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> using an <i>Agrobacterium</i> -mediated transient expression system. <i>Plant Cell, Tissue and Organ Culture</i> , 2020 , 141, 31-40	2.7	
72	Oral administration of <i>Debaryomyces hansenii</i> CBS8339- β -glucan induces trained immunity in newborn goats. <i>Developmental and Comparative Immunology</i> , 2020 , 105, 103597	3.2	11
71	A multi-epitope plant-made chimeric protein (LTBentero) targeting common enteric pathogens is immunogenic in mice. <i>Plant Molecular Biology</i> , 2020 , 102, 159-169	4.6	7
70	Morpho-physiology and Pht1 gene expressions in native maize plants with AM fungi and phosphorus. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2020 , 48, 1357-1368	1.2	
69	Probiotic and nutritional effects of <i>Debaryomyces hansenii</i> on animals. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 7689-7699	5.7	10
68	Dietary supplementation of marine yeast <i>Yarrowia lipolytica</i> modulates immune response in <i>Litopenaeus vannamei</i> . <i>Fish and Shellfish Immunology</i> , 2020 , 105, 469-476	4.3	7
67	<i>Bacillus licheniformis</i> BCR 4-3 increases immune response and survival of <i>Litopenaeus vannamei</i> challenged with <i>Vibrio parahaemolyticus</i> IPNGS16. <i>Aquaculture International</i> , 2020 , 28, 2303-2318	2.6	2
66	An overview of nanogel-based vaccines. <i>Expert Review of Vaccines</i> , 2019 , 18, 951-968	5.2	9
65	Probiotic properties and fatty acid composition of the yeast <i>Kluyveromyces lactis</i> M3. In vivo immunomodulatory activities in gilthead seabream (<i>Sparus aurata</i>). <i>Fish and Shellfish Immunology</i> , 2019 , 94, 389-397	4.3	11
64	Efficacy of the corn smut-made CTB oral vaccine on mucosal immune parameters in Pacific red snapper (<i>Lutjanus peru</i>). <i>Aquaculture</i> , 2019 , 503, 403-411	4.4	2
63	Methylmercury, cadmium and arsenic(III)-induced toxicity, oxidative stress and apoptosis in Pacific red snapper leukocytes. <i>Aquatic Toxicology</i> , 2019 , 213, 105223	5.1	14

62	Phytochemical composition and immunobiological activity of Hawthorn <i>Crataegus mexicana</i> nanoencapsulated in Longfin yellowtail <i>Seriola rivoliana</i> leukocytes. <i>Fish and Shellfish Immunology</i> , 2019 , 92, 308-314	4.3	5
61	Biosynthesis of β -D-glucan-gold nanoparticles, cytotoxicity and oxidative stress in mouse splenocytes. <i>International Journal of Biological Macromolecules</i> , 2019 , 134, 379-389	7.9	14
60	Biosprospecting potential of kelp (Laminariales, Phaeophyceae) from Baja California Peninsula: phenolic content, antioxidant properties, anti-inflammatory, and cell viability. <i>Journal of Applied Phycology</i> , 2019 , 31, 3115-3129	3.2	8
59	Design of a multi-epitopic Zaire ebolavirus protein and its expression in plant cells. <i>Journal of Biotechnology</i> , 2019 , 295, 41-48	3.7	6
58	Control of AHPND by phages: a promising biotechnological approach. <i>Reviews in Aquaculture</i> , 2019 , 11, 989-1004	8.9	4
57	Genetically-engineered plants yield an orally immunogenic PirA-like toxin from <i>Vibrio parahaemolyticus</i> . <i>International Journal of Biological Macromolecules</i> , 2019 , 137, 126-131	7.9	1
56	Antioxidant and immunostimulant potentials of <i>Chenopodium ambrosioides</i> L. in Pacific red snapper (<i>Lutjanus peru</i>). <i>Aquaculture</i> , 2019 , 513, 734414	4.4	9
55	Effect of a Synbiotic Mix on Intestinal Structural Changes, and Typhimurium and Colonization in Broiler Chickens. <i>Animals</i> , 2019 , 9,	3.1	13
54	Effects of temperature on the life cycle of <i>Neobenedenia</i> sp. (Monogenea: Capsalidae) from <i>Seriola rivoliana</i> (Almaco jack) in Bahía de La Paz, BCS Mexico. <i>Parasitology Research</i> , 2019 , 118, 3267-3277	2.4	5
53	Probiotic effects of marine <i>Debaryomyces hansenii</i> CBS 8339 on innate immune and antioxidant parameters in newborn goats. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 2339-2352	5.7	14
52	C-type lectin 17A and macrophage-expressed receptor genes are magnified by fungal β -glucan after <i>Vibrio parahaemolyticus</i> infection in <i>Totoaba macdonaldi</i> cells. <i>Immunobiology</i> , 2019 , 224, 102-109 ³⁻⁴		8
51	Gold nanoparticles (AuNP) exert immunostimulatory and protective effects in shrimp (<i>Litopenaeus vannamei</i>) against <i>Vibrio parahaemolyticus</i> . <i>Fish and Shellfish Immunology</i> , 2019 , 84, 756-767	4.3	21
50	Antioxidant, intestinal immune status and anti-inflammatory potential of <i>Chenopodium ambrosioides</i> L. in fish: In vitro and in vivo studies. <i>Fish and Shellfish Immunology</i> , 2019 , 86, 420-428	4.3	24
49	Plant extracts as a natural treatment against the fish ectoparasite <i>Neobenedenia</i> sp. (Monogenea: Capsalidae). <i>Journal of Helminthology</i> , 2019 , 93, 57-65	1.6	12
48	The potential use of <i>Debaryomyces hansenii</i> for the biological control of pathogenic fungi in food. <i>Biological Control</i> , 2018 , 121, 216-222	3.8	24
47	<i>Sterigmatomyces halophilus</i> β -glucan improves the immune response and bacterial resistance in Pacific red snapper (<i>Lutjanus peru</i>) peripheral blood leukocytes: In vitro study. <i>Fish and Shellfish Immunology</i> , 2018 , 78, 392-403	4.3	15
46	New trends in innovative vaccine development against <i>Actinobacillus pleuropneumoniae</i> . <i>Veterinary Microbiology</i> , 2018 , 217, 66-75	3.3	17
45	Class B CpG-ODN2006 is highly associated with IgM and antimicrobial peptide gene expression through TLR9 pathway in yellowtail <i>Seriola lalandi</i> . <i>Fish and Shellfish Immunology</i> , 2018 , 77, 71-82	4.3	3

44	Effects of pregnancy and post-kidding stages on haematochemical parameters in cross-bred goats. <i>Journal of Applied Animal Research</i> , 2018 , 46, 269-273	1.7	9
43	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. <i>Developmental and Comparative Immunology</i> , 2018 , 78, 149-159	3.2	2
42	Dietary fulvic acid effects on survival and expression of immune-related genes in <i>Litopenaeus vannamei</i> challenged with <i>Vibrio parahaemolyticus</i> . <i>Aquaculture Research</i> , 2018 , 49, 3218-3227	1.9	7
41	<i>Debaryomyces hansenii</i> CBS 8339 β -glucan enhances immune responses and down-stream gene signaling pathways in goat peripheral blood leukocytes. <i>Developmental and Comparative Immunology</i> , 2018 , 88, 173-182	3.2	15
40	Caspase -1, -3, -8 and antioxidant enzyme genes are key molecular effectors following <i>Vibrio parahaemolyticus</i> and <i>Aeromonas veronii</i> infection in fish leukocytes. <i>Immunobiology</i> , 2018 , 223, 562-576	3.4	10
39	Production of specific dsRNA against white spot syndrome virus in the yeast <i>Yarrowia lipolytica</i> . <i>Aquaculture Research</i> , 2018 , 49, 480-491	1.9	9
38	Prospects on the Use of sp. to Develop Oral Vaccines. <i>Frontiers in Microbiology</i> , 2018 , 9, 2506	5.7	15
37	Immobilizing yeast β -glucan on zinc-layered hydroxide nanoparticle improves innate immune response in fish leukocytes. <i>Fish and Shellfish Immunology</i> , 2018 , 82, 504-513	4.3	15
36	Immunostimulant effects and potential application of β -glucans derived from marine yeast <i>Debaryomyces hansenii</i> in goat peripheral blood leucocytes. <i>International Journal of Biological Macromolecules</i> , 2018 , 116, 599-606	7.9	11
35	Antioxidant screening and phenolic content of ethanol extracts of selected Baja California Peninsula macroalgae. <i>Journal of Food Science and Technology</i> , 2017 , 54, 422-429	3.3	22
34	<i>Debaryomyces hansenii</i> up regulates superoxide dismutase gene expression and enhances the immune response and survival in Pacific red snapper (<i>Lutjanus peru</i>) leukocytes after <i>Vibrio parahaemolyticus</i> infection. <i>Developmental and Comparative Immunology</i> , 2017 , 71, 18-27	3.2	21
33	A novel design of a multi-antigenic, multistage and multi-epitope vaccine against <i>Helicobacter pylori</i> : An in silico approach. <i>Infection, Genetics and Evolution</i> , 2017 , 49, 309-317	4.5	88
32	Evaluation of two in-house immunoenzymatic tests to serodiagnose subclinical paratuberculosis in a sheep flock in Mexicali valley, Mexico. <i>Journal of Immunoassay and Immunochemistry</i> , 2017 , 38, 420-429	1.8	
31	In vivo and in vitro studies using larval and adult antigens from <i>Neobenedenia melleni</i> on immune response in yellowtail (<i>Seriola lalandi</i>). <i>Journal of Fish Diseases</i> , 2017 , 40, 1497-1509	2.6	9
30	Recombinant PirA-like toxin protects shrimp against challenge with <i>Vibrio parahaemolyticus</i> , the aetiological agent of acute hepatopancreatic necrosis disease. <i>Journal of Fish Diseases</i> , 2017 , 40, 1725-1729	2.6	13
29	Corn-based vaccines: current status and prospects. <i>Planta</i> , 2017 , 245, 875-888	4.7	7
28	Expression of the VP40 antigen from the Zaire ebolavirus in tobacco plants. <i>Planta</i> , 2017 , 246, 123-132	4.7	12
27	Dietary yeast <i>Sterigmatomyces halophilus</i> enhances mucosal immunity of gilthead seabream (<i>Sparus aurata</i> L.). <i>Fish and Shellfish Immunology</i> , 2017 , 64, 165-175	4.3	17

26	Expression of an immunogenic LTB-based chimeric protein targeting Zaire ebolavirus epitopes from GP1 in plant cells. <i>Plant Cell Reports</i> , 2017 , 36, 355-365	5.1	22
25	Environmental Factors Favoring the Proliferation of <i>Aedes aegypti</i> (Linnaeus 1762) Larvae in Livestock Water Troughs at a Suburban Area of La Paz, Mexico. <i>Southwestern Entomologist</i> , 2017 , 42, 795-803	0.3	1
24	In vitro immunostimulatory potential of fungal β glucans in pacific red snapper (<i>Lutjanus peru</i>) cells. <i>Developmental and Comparative Immunology</i> , 2017 , 77, 350-358	3.2	15
23	Marine yeasts and bacteria as biological control agents against anthracnose on mango. <i>Journal of Phytopathology</i> , 2017 , 165, 833-840	1.8	23
22	Marine yeast <i>Yarrowia lipolytica</i> improves the immune responses in Pacific red snapper (<i>Lutjanus peru</i>) leukocytes. <i>Fish and Shellfish Immunology</i> , 2017 , 70, 48-56	4.3	15
21	Molecular characterization and expression analyses of toll like receptor-5 induced by <i>Vibrio parahaemolyticus</i> antigens in Pacific red snapper. <i>Fish and Shellfish Immunology</i> , 2017 , 68, 180-189	4.3	8
20	Enhancing gilthead seabream immune status and protection against bacterial challenge by means of antigens derived from <i>Vibrio parahaemolyticus</i> . <i>Fish and Shellfish Immunology</i> , 2017 , 60, 205-218	4.3	9
19	A Perspective on the Development of Plant-Made Vaccines in the Fight against Ebola Virus. <i>Frontiers in Immunology</i> , 2017 , 8, 252	8.4	19
18	Algevir: An Expression System for Microalgae Based on Viral Vectors. <i>Frontiers in Microbiology</i> , 2017 , 8, 1100	5.7	16
17	Evaluation of ToxA and <i>Vibrio parahaemolyticus</i> lysate on humoral immune response and immune-related genes in Pacific red snapper. <i>Fish and Shellfish Immunology</i> , 2016 , 56, 310-321	4.3	15
16	Effect of mixed- <i>Bacillus</i> spp isolated from pustulose ark <i>Anadara tuberculosa</i> on growth, survival, viral prevalence and immune-related gene expression in shrimp <i>Litopenaeus vannamei</i> . <i>Fish and Shellfish Immunology</i> , 2016 , 59, 95-102	4.3	24
15	Antiporter NHX2 differentially induced in <i>Mesembryanthemum crystallinum</i> natural genetic variant under salt stress. <i>Plant Cell, Tissue and Organ Culture</i> , 2016 , 124, 361-375	2.7	4
14	Biocontrol activity of the marine yeast <i>Debaryomyces hansenii</i> against phytopathogenic fungi and its ability to inhibit mycotoxins production in maize grain (<i>Zea mays</i> L.). <i>Biological Control</i> , 2016 , 97, 70-79	3.8	36
13	Food-Grade Organisms as Vaccine Biofactories and Oral Delivery Vehicles. <i>Trends in Biotechnology</i> , 2016 , 34, 124-136	15.1	61
12	TLR21 β agonists in combination with <i>Aeromonas</i> antigens synergistically up-regulate functional TLR21 and cytokine gene expression in yellowtail leukocytes. <i>Developmental and Comparative Immunology</i> , 2016 , 61, 107-115	3.2	15
11	B-cell activating CpG ODN 1668 enhance the immune response of Pacific red snapper (<i>Lutjanus peru</i>) exposed to <i>Vibrio parahaemolyticus</i> . <i>Developmental and Comparative Immunology</i> , 2016 , 62, 72-81	3.2	17
10	Changes in transferrin gene expression after exposure to iron and <i>Aeromonas hydrophila</i> infection in yellow snapper (<i>Lutjanus argentiventris</i>). <i>Agri Gene</i> , 2016 , 1, 79-87	1.9	2
9	Leukocyte susceptibility and immune response against <i>Vibrio parahaemolyticus</i> in <i>Totoaba macdonaldi</i> . <i>Developmental and Comparative Immunology</i> , 2016 , 65, 258-267	3.2	20

8	Two Promoters of Beta-Glucosidase Paralogs (ZmBGlu2 and ZmBGlu5) Highly Active in Tropical Young Maize Hybrid Seedlings. <i>Plant Molecular Biology Reporter</i> , 2015 , 33, 1666-1674	1.7	2
7	Molecular cloning and comparative responses of Toll-like receptor 22 following ligands stimulation and parasitic infection in yellowtail (<i>Seriola lalandi</i>). <i>Fish and Shellfish Immunology</i> , 2015 , 46, 323-33	4.3	18
6	Chikungunya virus vaccines: Current strategies and prospects for developing plant-made vaccines. <i>Vaccine</i> , 2015 , 33, 3650-8	4.1	22
5	In silico epitope analysis of unique and membrane associated proteins from <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> for immunogenicity and vaccine evaluation. <i>Journal of Theoretical Biology</i> , 2015 , 384, 1-9	2.3	13
4	Humoral immune response and TLR9 gene expression in Pacific red snapper (<i>Lutjanus peru</i>) experimentally exposed to <i>Aeromonas veronii</i> . <i>Fish and Shellfish Immunology</i> , 2015 , 42, 289-96	4.3	27
3	An overview of tuberculosis plant-derived vaccines. <i>Expert Review of Vaccines</i> , 2015 , 14, 877-89	5.2	6
2	<i>Bacillus subtilis</i> comes of age as a vaccine production host and delivery vehicle. <i>Expert Review of Vaccines</i> , 2015 , 14, 1135-48	5.2	21
1	Dietary administration of microalgae alone or supplemented with <i>Lactobacillus sakei</i> affects immune response and intestinal morphology of Pacific red snapper (<i>Lutjanus peru</i>). <i>Fish and Shellfish Immunology</i> , 2014 , 40, 208-16	4.3	61