

# Benjamín Costas

## List of Publications by Year in descending order

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87  
papers

2,755  
citations

147726

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	The male and female gonad transcriptome of the edible sea urchin, <i>Paracentrotus lividus</i> : Identification of sex-related and lipid biosynthesis genes. <i>Aquaculture Reports</i> , 2022, 22, 100936.	0.7	6
2	Short-Term Immune Responses of Gilthead Seabream ( <i>Sparus aurata</i> ) Juveniles against <i>Photobacterium damselae</i> subsp. <i>piscicida</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 1561.	1.8	6
3	Acute Inflammation Induces Neuroendocrine and Opioid Receptor Genes Responses in the Seabass <i>Dicentrarchus labrax</i> Brain. <i>Biology</i> , 2022, 11, 364.	1.3	2
4	Functional and Molecular Immune Response of Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) Following Challenge with <i>Yersinia ruckeri</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 3096.	1.8	6
5	Comparative Analysis between Synthetic Vitamin E and Natural Antioxidant Sources from Tomato, Carrot and Coriander in Diets for Market-Sized <i>Dicentrarchus labrax</i> . <i>Antioxidants</i> , 2022, 11, 636.	2.2	10
6	Shrimp immune response: A transcriptomic perspective. <i>Reviews in Aquaculture</i> , 2022, 14, 1136-1149.	4.6	12
7	Alternative Proteins for Fish Diets: Implications beyond Growth. <i>Animals</i> , 2022, 12, 1211.	1.0	38
8	Chronic Inflammation Modulates Opioid Receptor Gene Expression and Triggers Respiratory Burst in a Teleost Model. <i>Biology</i> , 2022, 11, 764.	1.3	6
9	Dietary supplementation with <i>Gracilaria gracilis</i> by-products modulates the immune status and oxidative stress response of gilthead seabream ( <i>Sparus aurata</i> ) stimulated with <i>Photobacterium damselae</i> subsp. <i>piscicida</i> . <i>Fish and Shellfish Immunology</i> , 2022, 126, 164-177.	1.6	4
10	<i>Chlorella vulgaris</i> Extracts as Modulators of the Health Status and the Inflammatory Response of Gilthead Seabream Juveniles ( <i>Sparus aurata</i> ). <i>Marine Drugs</i> , 2022, 20, 407.	2.2	3
11	Dietary methionine as a strategy to improve innate immunity in rainbow trout ( <i>Oncorhynchus mykiss</i> ) juveniles. <i>General and Comparative Endocrinology</i> , 2021, 302, 113690.	0.8	11
12	Health status in gilthead seabream ( <i>Sparus aurata</i> ) juveniles fed diets devoid of fishmeal and supplemented with <i>Phaeodactylum tricornutum</i> . <i>Journal of Applied Phycology</i> , 2021, 33, 979-996.	1.5	10
13	Microalgal biomasses have potential as ingredients in microdiets for Senegalese sole ( <i>Solea</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.5	9
14	Methionine and Tryptophan Play Different Modulatory Roles in the European Seabass ( <i>Dicentrarchus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 2021, 12, 660448.	2.2	8
15	Dietary Histidine, Threonine, or Taurine Supplementation Affects Gilthead Seabream ( <i>Sparus aurata</i> ) Immune Status. <i>Animals</i> , 2021, 11, 1193.	1.0	6
16	Nutritional value, antimicrobial and antioxidant activities of micro- and macroalgae, single or blended, unravel their potential use for aquafeeds. <i>Journal of Applied Phycology</i> , 2021, 33, 3507-3518.	1.5	19
17	Inclusion of a protein-rich yeast fraction in rainbow trout plant-based diet: Consequences on growth performances, flesh fatty acid profile and health-related parameters. <i>Aquaculture</i> , 2021, 544, 737132.	1.7	11
18	Modulation of Macrophages M1/M2 Polarization Using Carbohydrate-Functionalized Polymeric Nanoparticles. <i>Polymers</i> , 2021, 13, 88.	2.0	25

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19	Immune Status and Hepatic Antioxidant Capacity of Gilthead Seabream <i>Sparus aurata</i> Juveniles Fed Yeast and Microalga Derived $\beta$ -glucans. <i>Marine Drugs</i> , 2021, 19, 653.	2.2	19
20	Antimicrobial and Toxic Activity of Citronella Essential Oil ( <i>Cymbopogon nardus</i> ), and Its Effect on the Growth and Metabolism of Gilthead Seabream ( <i>Sparus aurata</i> L.). <i>Fishes</i> , 2021, 6, 61.	0.7	4
21	Antimicrobial peptides from fish: beyond the fight against pathogens. <i>Reviews in Aquaculture</i> , 2020, 12, 224-253.	4.6	75
22	Short-Term Supplementation of Dietary Arginine and Citrulline Modulates Gilthead Seabream ( <i>Sparus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.2	11
23	Seasonal Temperature Fluctuations Differently Affect the Immune and Biochemical Parameters of Diploid and Triploid <i>Oncorhynchus mykiss</i> Cage-Cultured in Temperate Latitudes. <i>Sustainability</i> , 2020, 12, 8785.	1.6	6
24	Dietary arginine and citrulline supplementation modulates the immune condition and inflammatory response of European seabass. <i>Fish and Shellfish Immunology</i> , 2020, 106, 451-463.	1.6	8
25	Dietary methionine supplementation improves the European seabass ( <i>Dicentrarchus labrax</i> ) immune status following long-term feeding on fishmeal-free diets. <i>British Journal of Nutrition</i> , 2020, 124, 890-902.	1.2	14
26	Mucosal immune responses in Senegalese sole ( <i>Solea senegalensis</i> ) juveniles after <i>Tenacibaculum maritimum</i> challenge: A comparative study between ocular and blind sides. <i>Fish and Shellfish Immunology</i> , 2020, 104, 92-100.	1.6	12
27	New Perspectives Related to the Bioluminescent System in Dinoflagellates: <i>Pyrocystis lunula</i> , a Case Study. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1784.	1.8	7
28	Roles of arginine in fish nutrition and health: insights for future researches. <i>Reviews in Aquaculture</i> , 2020, 12, 2091-2108.	4.6	43
29	Anchovy and giant squid hydrolysates can enhance growth and the immune response of European seabass ( <i>Dicentrarchus labrax</i> ) fed plant-protein-based diets. <i>Aquaculture</i> , 2020, 523, 735182.	1.7	16
30	Effects of Water Acidification on Senegalese Sole <i>Solea senegalensis</i> Health Status and Metabolic Rate: Implications for Immune Responses and Energy Use. <i>Frontiers in Physiology</i> , 2020, 11, 26.	1.3	16
31	Cellular and humoral immune responses of meagre ( <i>Argyrosomus regius</i> ) juveniles to bacterial infection with <i>Photobacterium damsela</i> piscicida. <i>Fish and Shellfish Immunology</i> , 2019, 91, 410-411.	1.6	1
32	Immune responses of European seabass ( <i>Dicentrarchus labrax</i> ) juveniles to chronic inflammation. <i>Fish and Shellfish Immunology</i> , 2019, 91, 399-400.	1.6	0
33	The Use of Dietary Additives in Fish Stress Mitigation: Comparative Endocrine and Physiological Responses. <i>Frontiers in Endocrinology</i> , 2019, 10, 447.	1.5	70
34	Dietary tryptophan supplementation induces a transient immune enhancement of gilthead seabream ( <i>Sparus aurata</i> ) juveniles fed fishmeal-free diets. <i>Fish and Shellfish Immunology</i> , 2019, 93, 240-250.	1.6	11
35	Acute-Stress Biomarkers in Three Octopodidae Species After Bottom Trawling. <i>Frontiers in Physiology</i> , 2019, 10, 784.	1.3	16
36	Dietary tryptophan deficiency and its supplementation compromises inflammatory mechanisms and disease resistance in a teleost fish. <i>Scientific Reports</i> , 2019, 9, 7689.	1.6	28

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37	Dietary Tryptophan Induces Opposite Health-Related Responses in the Senegalese Sole ( <i>Solea</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Frontiers in Physiology, 2019, 10, 508.	1.3	16
38	Interactive effects of dietary fishmeal level and plant essential oils supplementation on European sea bass, <i>Dicentrarchus labrax</i> : Growth performance, nutrient utilization, and immunological response. Journal of the World Aquaculture Society, 2019, 50, 1078-1092.	1.2	14
39	Mucosal and systemic immune responses in Senegalese sole ( <i>Solea senegalensis</i> Kaup) bath challenged with <i>Tenacibaculum maritimum</i> : A time-course study. Fish and Shellfish Immunology, 2019, 87, 744-754.	1.6	24
40	Interactive effects of dietary vegetable oil and carbohydrate incorporation on the innate immune response of European seabass ( <i>Dicentrarchus labrax</i> ) juveniles subjected to acute stress. Aquaculture, 2019, 498, 171-180.	1.7	11
41	Effects of dietary tryptophan and chronic stress in gilthead seabream ( <i>Sparus aurata</i> ) juveniles fed corn distillers dried grains with solubles (DDGS) based diets. Aquaculture, 2019, 498, 396-404.	1.7	12
42	Physiological roles of tryptophan in teleosts: current knowledge and perspectives for future studies. Reviews in Aquaculture, 2019, 11, 3-24.	4.6	80
43	Welfare, Stress and Immune System. , 2019, , 291-307.		0
44	Acute hyperoxia induces systemic responses with no major changes in peripheral tissues in the Senegalese sole ( <i>Solea senegalensis</i> Kaup, 1858). Fish and Shellfish Immunology, 2018, 74, 260-267.	1.6	5
45	Dietary Methionine Improves the European Seabass ( <i>Dicentrarchus labrax</i> ) Immune Status, Inflammatory Response, and Disease Resistance. Frontiers in Immunology, 2018, 9, 2672.	2.2	46
46	Isolation and characterization of native probiotics for fish farming. BMC Microbiology, 2018, 18, 119.	1.3	83
47	Physiopathological responses of sole ( <i>Solea senegalensis</i> ) subjected to bacterial infection and handling stress after probiotic treatment with autochthonous bacteria. Fish and Shellfish Immunology, 2018, 83, 348-358.	1.6	15
48	Humoral and mucosal immune responses in meagre ( <i>Argyrosomus regius</i> ) juveniles fed diets with varying inclusion levels of carob seed germ meal. Fish and Shellfish Immunology, 2018, 79, 209-217.	1.6	8
49	Annual assessment of the sea urchin ( <i>Paracentrotus lividus</i> ) humoral innate immune status: Tales from the north Portuguese coast. Marine Environmental Research, 2018, 141, 128-137.	1.1	9
50	Commercial <i>Bacillus</i> probiotic supplementation of rainbow trout ( <i>Oncorhynchus mykiss</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Aquaculture Research, 2017, 48, 2538-2549.	0.9	22
51	Local immune response of two mucosal surfaces of the European seabass, <i>Dicentrarchus labrax</i> , fed tryptophan- or methionine-supplemented diets. Fish and Shellfish Immunology, 2017, 70, 76-86.	1.6	15
52	The European seabass ( <i>Dicentrarchus labrax</i> ) innate immunity and gut health are modulated by dietary plant-protein inclusion and prebiotic supplementation. Fish and Shellfish Immunology, 2017, 60, 78-87.	1.6	57
53	Amino acids as modulators of the European seabass, <i>Dicentrarchus labrax</i> , innate immune response: an in vitro approach. Scientific Reports, 2017, 7, 18009.	1.6	16
54	Neuroendocrine and Immune Responses Undertake Different Fates following Tryptophan or Methionine Dietary Treatment: Tales from a Teleost Model. Frontiers in Immunology, 2017, 8, 1226.	2.2	38

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55	Immune responses and gut morphology in Senegalese sole ( <i>Solea senegalensis</i> ) fed dietary probiotic supplementation and following exposure to <i>Photobacterium damsela</i> subsp. <i>piscicida</i> . <i>Aquaculture Research</i> , 2016, 47, 951-960.	0.9	5
56	Tenacibaculosis induction in the Senegalese sole ( <i>Solea senegalensis</i> ) and studies of <i>Tenacibaculum maritimum</i> survival against host mucus and plasma. <i>Journal of Fish Diseases</i> , 2016, 39, 1445-1455.	0.9	26
57	New developments and biological insights into the farming of <i>Solea senegalensis</i> reinforcing its aquaculture potential. <i>Reviews in Aquaculture</i> , 2016, 8, 227-263.	4.6	86
58	Effect of short chain fructooligosaccharides (scFOS) on immunological status and gut microbiota of gilthead sea bream ( <i>Sparus aurata</i> ) reared at two temperatures. <i>Fish and Shellfish Immunology</i> , 2016, 49, 122-131.	1.6	37
59	European Sea Bass ( <i>Dicentrarchus labrax</i> ) Immune Status and Disease Resistance Are Impaired by Arginine Dietary Supplementation. <i>PLoS ONE</i> , 2015, 10, e0139967.	1.1	47
60	Evaluation of different stocking densities in a Senegalese sole ( <i>Solea senegalensis</i> ) farm: Implications for growth, humoral immune parameters and oxidative status. <i>Aquaculture</i> , 2015, 438, 6-11.	1.7	79
61	Growth, immune responses and intestinal morphology of rainbow trout ( <i>Oncorhynchus mykiss</i> ) supplemented with commercial probiotics. <i>Fish and Shellfish Immunology</i> , 2015, 45, 19-26.	1.6	52
62	Reference values for selected hematological and serum biochemical parameters of Senegalese sole ( <i>Solea senegalensis</i> Kaup, 1858) juveniles under intensive aquaculture conditions. <i>Journal of Applied Ichthyology</i> , 2015, 31, 65-71.	0.3	25
63	Dietary tryptophan and methionine as modulators of European seabass ( <i>Dicentrarchus labrax</i> ) immune status and inflammatory response. <i>Fish and Shellfish Immunology</i> , 2015, 42, 353-362.	1.6	107
64	Non-specific immune responses of Senegalese sole, <i>Solea senegalensis</i> ( <i>Solea senegalensis</i> Kaup), head-kidney leucocytes against <i>Tenacibaculum maritimum</i> . <i>Journal of Fish Diseases</i> , 2014, 37, 765-769.	0.9	7
65	Effect of temperature and short chain fructooligosaccharides supplementation on the hepatic oxidative status and immune response of turbot ( <i>Scophthalmus maximus</i> ). <i>Fish and Shellfish Immunology</i> , 2014, 40, 570-576.	1.6	41
66	Gilthead seabream ( <i>Sparus aurata</i> ) immune responses are modulated after feeding with purified antinutrients. <i>Fish and Shellfish Immunology</i> , 2014, 41, 70-79.	1.6	29
67	Dietary arginine supplementation decreases plasma cortisol levels and modulates immune mechanisms in chronically stressed turbot ( <i>Scophthalmus maximus</i> ). <i>Aquaculture Nutrition</i> , 2013, 19, 25-38.	1.1	31
68	Cellular and humoral immune responses of Senegalese sole, <i>Solea senegalensis</i> ( <i>Solea senegalensis</i> Kaup), following challenge with two <i>Photobacterium damsela</i> subsp. <i>piscicida</i> strains from different geographical origins. <i>Journal of Fish Diseases</i> , 2013, 36, 543-553.	0.9	31
69	Linking cortisol responsiveness and aggressive behaviour in gilthead seabream <i>Sparus aurata</i> : Indication of divergent coping styles. <i>Applied Animal Behaviour Science</i> , 2013, 143, 75-81.	0.8	62
70	Rainbow trout ( <i>Oncorhynchus mykiss</i> ) immune parameters are modulated after dietary probiotic supplementation. <i>Fish and Shellfish Immunology</i> , 2013, 34, 1732.	1.6	2
71	The effect of tryptophan supplemented diets on brain serotonergic activity and plasma cortisol under undisturbed and stressed conditions in group-housed Nile tilapia <i>Oreochromis niloticus</i> . <i>Aquaculture</i> , 2013, 400-401, 129-134.	1.7	39
72	Interactive effects of a high-quality protein diet and high stocking density on the stress response and some innate immune parameters of Senegalese sole <i>Solea senegalensis</i> . <i>Fish Physiology and Biochemistry</i> , 2013, 39, 1141-1151.	0.9	61

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73	Can We Predict Personality in Fish? Searching for Consistency over Time and across Contexts. PLoS ONE, 2013, 8, e62037.	1.1	104
74	Changes in Liver Proteome Expression of Senegalese Sole ( <i>Solea senegalensis</i> ) in Response to Repeated Handling Stress. Marine Biotechnology, 2012, 14, 714-729.	1.1	41
75	Different environmental temperatures affect amino acid metabolism in the eurytherm teleost Senegalese sole ( <i>Solea senegalensis</i> Kaup, 1858) as indicated by changes in plasma metabolites. Amino Acids, 2012, 43, 327-335.	1.2	45
76	Effects of dietary amino acids and repeated handling on stress response and brain monoaminergic neurotransmitters in Senegalese sole ( <i>Solea senegalensis</i> ) juveniles. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 161, 18-26.	0.8	28
77	Dietary nitrogen and fish welfare. Fish Physiology and Biochemistry, 2012, 38, 119-141.	0.9	56
78	Physiological responses of Senegalese sole ( <i>Solea senegalensis</i> Kaup, 1858) after stress challenge: Effects on non-specific immune parameters, plasma free amino acids and energy metabolism. Aquaculture, 2011, 316, 68-76.	1.7	128
79	Dietary arginine and repeated handling increase disease resistance and modulate innate immune mechanisms of Senegalese sole ( <i>Solea senegalensis</i> Kaup, 1858). Fish and Shellfish Immunology, 2011, 31, 838-847.	1.6	97
80	Individual differences in metabolism predict coping styles in fish. Applied Animal Behaviour Science, 2011, 130, 135-143.	0.8	75
81	Feed deprivation in Senegalese sole ( <i>Solea senegalensis</i> Kaup, 1858) juveniles: effects on blood plasma metabolites and free amino acid levels. Fish Physiology and Biochemistry, 2011, 37, 495-504.	0.9	70
82	Linking Fearfulness and Coping Styles in Fish. PLoS ONE, 2011, 6, e28084.	1.1	45
83	Changes in plasma amino acid levels in a euryhaline fish exposed to different environmental salinities. Amino Acids, 2010, 38, 311-317.	1.2	47
84	Feed intake and growth performance of Senegalese sole ( <i>Solea senegalensis</i> Kaup, 1858) fed diets with partial replacement of fish meal with plant proteins. Aquaculture Research, 2010, 41, e20-e30.	0.9	26
85	High stocking density induces crowding stress and affects amino acid metabolism in Senegalese sole <i>Solea senegalensis</i> (Kaup 1858) juveniles. Aquaculture Research, 2008, 39, 1-9.	0.9	135
86	Stress response and changes in amino acid requirements in Senegalese sole ( <i>Solea senegalensis</i> Kaup) Tj ETQq0 0 Q rgBT /Overlock 10 T	1.2	87
87	Water acidification activates the innate immune system of Senegalese sole <i>Solea senegalensis</i> . Frontiers in Marine Science, 0, 3, .	1.2	0