

Benjamín Costas

List of Publications by Year in descending order

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docs citations

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | High stocking density induces crowding stress and affects amino acid metabolism in Senegalese sole <i>Solea senegalensis</i> (Kaup 1858) juveniles. <i>Aquaculture Research</i> , 2008, 39, 1-9. | 0.9 | 135 |
| 2 | 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. <i>Aquaculture</i> , 2011, 316, 68-76. | 1.7 | 128 |
| 3 | 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 |
| 4 | Can We Predict Personality in Fish? Searching for Consistency over Time and across Contexts. <i>PLoS ONE</i> , 2013, 8, e62037. | 1.1 | 104 |
| 5 | Dietary arginine and repeated handling increase disease resistance and modulate innate immune mechanisms of Senegalese sole (<i>Solea senegalensis</i> Kaup, 1858). <i>Fish and Shellfish Immunology</i> , 2011, 31, 838-847. | 1.6 | 97 |
| 6 | 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 |
| 7 | Isolation and characterization of native probiotics for fish farming. <i>BMC Microbiology</i> , 2018, 18, 119. | 1.3 | 83 |
| 8 | Physiological roles of tryptophan in teleosts: current knowledge and perspectives for future studies. <i>Reviews in Aquaculture</i> , 2019, 11, 3-24. | 4.6 | 80 |
| 9 | 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 |
| 10 | Individual differences in metabolism predict coping styles in fish. <i>Applied Animal Behaviour Science</i> , 2011, 130, 135-143. | 0.8 | 75 |
| 11 | Antimicrobial peptides from fish: beyond the fight against pathogens. <i>Reviews in Aquaculture</i> , 2020, 12, 224-253. | 4.6 | 75 |
| 12 | Feed deprivation in Senegalese sole (<i>Solea senegalensis</i> Kaup, 1858) juveniles: effects on blood plasma metabolites and free amino acid levels. <i>Fish Physiology and Biochemistry</i> , 2011, 37, 495-504. | 0.9 | 70 |
| 13 | 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 |
| 14 | 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 | 67 |
| 15 | 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 |
| 16 | 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 |
| 17 | The European seabass (<i>Dicentrarchus labrax</i>) innate immunity and gut health are modulated by dietary plant-protein inclusion and prebiotic supplementation. <i>Fish and Shellfish Immunology</i> , 2017, 60, 78-87. | 1.6 | 57 |
| 18 | Dietary nitrogen and fish welfare. <i>Fish Physiology and Biochemistry</i> , 2012, 38, 119-141. | 0.9 | 56 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | Changes in plasma amino acid levels in a euryhaline fish exposed to different environmental salinities. <i>Amino Acids</i> , 2010, 38, 311-317. | 1.2 | 47 |
| 21 | 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 |
| 22 | Dietary Methionine Improves the European Seabass (<i>Dicentrarchus labrax</i>) Immune Status, Inflammatory Response, and Disease Resistance. <i>Frontiers in Immunology</i> , 2018, 9, 2672. | 2.2 | 46 |
| 23 | 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. <i>Amino Acids</i> , 2012, 43, 327-335. | 1.2 | 45 |
| 24 | Linking Fearfulness and Coping Styles in Fish. <i>PLoS ONE</i> , 2011, 6, e28084. | 1.1 | 45 |
| 25 | Roles of arginine in fish nutrition and health: insights for future researches. <i>Reviews in Aquaculture</i> , 2020, 12, 2091-2108. | 4.6 | 43 |
| 26 | Changes in Liver Proteome Expression of Senegalese Sole (<i>Solea senegalensis</i>) in Response to Repeated Handling Stress. <i>Marine Biotechnology</i> , 2012, 14, 714-729. | 1.1 | 41 |
| 27 | 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 |
| 28 | The effect of tryptophan supplemented diets on brain serotonergic activity and plasma cortisol under undisturbed and stressed conditions in grouped-housed Nile tilapia <i>Oreochromis niloticus</i> . <i>Aquaculture</i> , 2013, 400-401, 129-134. | 1.7 | 39 |
| 29 | Neuroendocrine and Immune Responses Undertake Different Fates following Tryptophan or Methionine Dietary Treatment: Tales from a Teleost Model. <i>Frontiers in Immunology</i> , 2017, 8, 1226. | 2.2 | 38 |
| 30 | Alternative Proteins for Fish Diets: Implications beyond Growth. <i>Animals</i> , 2022, 12, 1211. | 1.0 | 38 |
| 31 | 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 |
| 32 | 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 |
| 33 | Cellular and humoral immune responses of Senegalese sole, <i>Solea senegalensis</i> (Kaup), following challenge with two <i>Piscibacterium damsela</i> subsp. <i>piscicida</i> strains from different geographical origins. <i>Journal of Fish Diseases</i> , 2013, 36, 543-553. | 0.9 | 31 |
| 34 | 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 |
| 35 | Effects of dietary amino acids and repeated handling on stress response and brain monoaminergic neurotransmitters in Senegalese sole (<i>Solea senegalensis</i>) juveniles. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2012, 161, 18-26. | 0.8 | 28 |
| 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 | 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. <i>Aquaculture Research</i> , 2010, 41, e20-e30. | 0.9 | 26 |
| 38 | 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 |
| 39 | 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 |
| 40 | Modulation of Macrophages M1/M2 Polarization Using Carbohydrate-Functionalized Polymeric Nanoparticles. <i>Polymers</i> , 2021, 13, 88. | 2.0 | 25 |
| 41 | Mucosal and systemic immune responses in Senegalese sole (<i>Solea senegalensis</i> Kaup) bath challenged with <i>Tenacibaculum maritimum</i> : A time-course study. <i>Fish and Shellfish Immunology</i> , 2019, 87, 744-754. | 1.6 | 24 |
| 42 | Commercial <i>Bacillus</i> probiotic supplementation of rainbow trout (<i>Oncorhynchus mykiss</i>) Tj ETQq0 0 0 rgBT /Overlock 10 <i>Aquaculture Research</i> , 2017, 48, 2538-2549. | 0.9 | 22 |
| 43 | 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 |
| 44 | Immune Status and Hepatic Antioxidant Capacity of Gilthead Seabream <i>Sparus aurata</i> Juveniles Fed Yeast and Microalga Derived β -glucans. <i>Marine Drugs</i> , 2021, 19, 653. | 2.2 | 19 |
| 45 | Amino acids as modulators of the European seabass, <i>Dicentrarchus labrax</i> , innate immune response: an in vitro approach. <i>Scientific Reports</i> , 2017, 7, 18009. | 1.6 | 16 |
| 46 | Acute-Stress Biomarkers in Three Octopodidae Species After Bottom Trawling. <i>Frontiers in Physiology</i> , 2019, 10, 784. | 1.3 | 16 |
| 47 | Dietary Tryptophan Induces Opposite Health-Related Responses in the Senegalese Sole (<i>Solea</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 <i>Frontiers in Physiology</i> , 2019, 10, 508. | 1.3 | 16 |
| 48 | 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 |
| 49 | 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 |
| 50 | Local immune response of two mucosal surfaces of the European seabass, <i>Dicentrarchus labrax</i> , fed tryptophan- or methionine-supplemented diets. <i>Fish and Shellfish Immunology</i> , 2017, 70, 76-86. | 1.6 | 15 |
| 51 | Physiopathological responses of sole (<i>Solea senegalensis</i>) subjected to bacterial infection and handling stress after probiotic treatment with autochthonous bacteria. <i>Fish and Shellfish Immunology</i> , 2018, 83, 348-358. | 1.6 | 15 |
| 52 | 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. <i>Journal of the World Aquaculture Society</i> , 2019, 50, 1078-1092. | 1.2 | 14 |
| 53 | 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 |
| 54 | 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. <i>Aquaculture</i> , 2019, 498, 396-404. | 1.7 | 12 |

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|----|---|-----|-----------|
| 55 | 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 |
| 56 | Shrimp immune response: A transcriptomic perspective. <i>Reviews in Aquaculture</i> , 2022, 14, 1136-1149. | 4.6 | 12 |
| 57 | 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 |
| 58 | 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. <i>Aquaculture</i> , 2019, 498, 171-180. | 1.7 | 11 |
| 59 | Short-Term Supplementation of Dietary Arginine and Citrulline Modulates Gilthead Seabream (<i>Sparus</i>) Tj ETQq1 1 0,784314 rgBT /Overlock 10 Tf | 2.2 | 11 |
| 60 | 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 |
| 61 | 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 |
| 62 | 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 |
| 63 | 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 |
| 64 | Annual assessment of the sea urchin (<i>Paracentrotus lividus</i>) humoral innate immune status: Tales from the north Portuguese coast. <i>Marine Environmental Research</i> , 2018, 141, 128-137. | 1.1 | 9 |
| 65 | 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 |
| 66 | Humoral and mucosal immune responses in meagre (<i>Argyrosomus regius</i>) juveniles fed diets with varying inclusion levels of carob seed germ meal. <i>Fish and Shellfish Immunology</i> , 2018, 79, 209-217. | 1.6 | 8 |
| 67 | 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 |
| 68 | 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 |
| 69 | Non-specific immune responses of Senegalese sole, <i>Solea senegalensis</i> (<i>Solea senegalensis</i>) (<i>Solea senegalensis</i>), head-kidney leucocytes against <i>Tenacibaculum maritimum</i> . <i>Journal of Fish Diseases</i> , 2014, 37, 765-769. | 0.9 | 7 |
| 70 | 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 |
| 71 | 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 |
| 72 | Dietary Histidine, Threonine, or Taurine Supplementation Affects Gilthead Seabream (<i>Sparus aurata</i>) Immune Status. <i>Animals</i> , 2021, 11, 1193. | 1.0 | 6 |

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|----|--|-----|-----------|
| 73 | 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 |
| 74 | Short-Term Immune Responses of Gilthead Seabream (<i>Sparus aurata</i>) Juveniles against <i>Photobacterium damsela</i> subsp. <i>piscicida</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 1561. | 1.8 | 6 |
| 75 | 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 |
| 76 | Chronic Inflammation Modulates Opioid Receptor Gene Expression and Triggers Respiratory Burst in a Teleost Model. <i>Biology</i> , 2022, 11, 764. | 1.3 | 6 |
| 77 | 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 |
| 78 | Acute hyperoxia induces systemic responses with no major changes in peripheral tissues in the Senegalese sole (<i>Solea senegalensis</i> Kaup, 1858). <i>Fish and Shellfish Immunology</i> , 2018, 74, 260-267. | 1.6 | 5 |
| 79 | 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 |
| 80 | 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 damsela</i> subsp. <i>piscicida</i> . <i>Fish and Shellfish Immunology</i> , 2022, 126, 164-177. | 1.6 | 4 |
| 81 | <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 |
| 82 | 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 |
| 83 | 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 |
| 84 | Cellular and humoral immune responses of meagre (<i>Argyrosomus regius</i>) juveniles to bacterial infection with <i>Photobacterium damsela</i> <i>piscicida</i> . <i>Fish and Shellfish Immunology</i> , 2019, 91, 410-411. | 1.6 | 1 |
| 85 | 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 |
| 86 | Water acidification activates the innate immune system of Senegalese sole <i>Solea senegalensis</i> . <i>Frontiers in Marine Science</i> , 0, 3, . | 1.2 | 0 |
| 87 | Welfare, Stress and Immune System. , 2019, , 291-307. | | 0 |