

# Mnica Beatriz Betancor

## List of Publications by Citations

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52  
papers

1,297  
citations

20  
h-index

35  
g-index

54  
ext. papers

1,616  
ext. citations

3.6  
avg, IF

4.79  
L-index

| #  | Paper                                                                                                                                                                                                                                                                                                                                                                         | IF  | Citations |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 52 | Omega-3 Long-Chain Polyunsaturated Fatty Acids, EPA and DHA: Bridging the Gap between Supply and Demand. <i>Nutrients</i> , <b>2019</b> , 11,                                                                                                                                                                                                                                 | 6.7 | 209       |
| 51 | Evaluation of a high-EPA oil from transgenic in feeds for Atlantic salmon ( L.): Effects on tissue fatty acid composition, histology and gene expression. <i>Aquaculture</i> , <b>2015</b> , 444, 1-12                                                                                                                                                                        | 4.4 | 106       |
| 50 | Replacement of Marine Fish Oil with de novo Omega-3 Oils From Transgenic Camelina sativa in Feeds for Gilthead Sea Bream ( <i>Sparus aurata</i> L.). <i>Lipids</i> , <b>2016</b> , 51, 1171-1191                                                                                                                                                                              | 1.6 | 69        |
| 49 | Biosynthesis of long-chain polyunsaturated fatty acids in the African catfish <i>Clarias gariepinus</i> : Molecular cloning and functional characterisation of fatty acyl desaturase (fads2) and elongase (elovl2) cDNAs7. <i>Aquaculture</i> , <b>2016</b> , 462, 70-79                                                                                                      | 4.4 | 57        |
| 48 | Influence of dietary docosahexaenoic acid in combination with other long-chain polyunsaturated fatty acids on expression of biosynthesis genes and phospholipid fatty acid compositions in tissues of post-smolt Atlantic salmon ( <i>Salmo salar</i> ). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2014</b> , 172-173, 74-89 | 2.3 | 52        |
| 47 | Enhanced intestinal epithelial barrier health status on European sea bass ( <i>Dicentrarchus labrax</i> ) fed mannan oligosaccharides. <i>Fish and Shellfish Immunology</i> , <b>2013</b> , 34, 1485-95                                                                                                                                                                       | 4.3 | 52        |
| 46 | An oil containing EPA and DHA from transgenic Camelina sativa to replace marine fish oil in feeds for Atlantic salmon ( <i>Salmo salar</i> L.): Effects on intestinal transcriptome, histology, tissue fatty acid profiles and plasma biochemistry. <i>PLoS ONE</i> , <b>2017</b> , 12, e0175415                                                                              | 3.7 | 50        |
| 45 | Selenium inclusion decreases oxidative stress indicators and muscle injuries in sea bass larvae fed high-DHA microdiets. <i>British Journal of Nutrition</i> , <b>2012</b> , 108, 2115-28                                                                                                                                                                                     | 3.6 | 47        |
| 44 | Nutritional Evaluation of an EPA-DHA Oil from Transgenic Camelina sativa in Feeds for Post-Smolt Atlantic Salmon ( <i>Salmo salar</i> L.). <i>PLoS ONE</i> , <b>2016</b> , 11, e0159934                                                                                                                                                                                       | 3.7 | 47        |
| 43 | The compositional and metabolic responses of gilthead seabream ( <i>Sparus aurata</i> ) to a gradient of dietary fish oil and associated n-3 long-chain PUFA content. <i>British Journal of Nutrition</i> , <b>2017</b> , 118, 1010-1022                                                                                                                                      | 3.6 | 37        |
| 42 | Daily rhythms in expression of genes of hepatic lipid metabolism in Atlantic salmon ( <i>Salmo salar</i> L.). <i>PLoS ONE</i> , <b>2014</b> , 9, e106739                                                                                                                                                                                                                      | 3.7 | 34        |
| 41 | Oil from transgenic Camelina sativa containing over 25 % n-3 long-chain PUFA as the major lipid source in feed for Atlantic salmon ( <i>Salmo salar</i> ). <i>British Journal of Nutrition</i> , <b>2018</b> , 119, 1378-1392                                                                                                                                                 | 3.6 | 33        |
| 40 | Effects of dietary limonene and thymol on the growth and nutritional physiology of Nile tilapia ( <i>Oreochromis niloticus</i> ). <i>Aquaculture</i> , <b>2018</b> , 488, 217-226                                                                                                                                                                                             | 4.4 | 32        |
| 39 | Selenium levels in early weaning diets for gilthead seabream larvae. <i>Aquaculture</i> , <b>2014</b> , 426-427, 256-263                                                                                                                                                                                                                                                      | 4.4 | 30        |
| 38 | Vitamin C enhances vitamin E status and reduces oxidative stress indicators in sea bass larvae fed high DHA microdiets. <i>Lipids</i> , <b>2012</b> , 47, 1193-207                                                                                                                                                                                                            | 1.6 | 30        |
| 37 | Fish oil replacement by different microalgal products in microdiets for early weaning of gilthead sea bream ( <i>Sparus aurata</i> , L.). <i>Aquaculture Research</i> , <b>2013</b> , 44, 819-828                                                                                                                                                                             | 1.9 | 29        |
| 36 | A comparative analysis of the response of the hepatic transcriptome to dietary docosahexaenoic acid in Atlantic salmon ( <i>Salmo salar</i> ) post-smolts. <i>BMC Genomics</i> , <b>2015</b> , 16, 684                                                                                                                                                                        | 4.5 | 28        |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 35 | Effects of supplementation of decapod zoea to Artemia basal diet on fatty acid composition and digestive gland histology in common octopus ( <i>Octopus vulgaris</i> ) paralarvae. <i>Aquaculture Research</i> , <b>2017</b> , 48, 633-645                                                              | 1.9 | 20 |
| 34 | Modulation of the Expression of Components of the Stress Response by Dietary Arachidonic Acid in European Sea Bass ( <i>Dicentrarchus labrax</i> ) Larvae. <i>Lipids</i> , <b>2015</b> , 50, 1029-41                                                                                                    | 1.6 | 20 |
| 33 | Functional diversification of teleost Fads2 fatty acyl desaturases occurs independently of the trophic level. <i>Scientific Reports</i> , <b>2019</b> , 9, 11199                                                                                                                                        | 4.9 | 20 |
| 32 | DHA but not EPA, enhances sound induced escape behavior and Mauthner cells activity in <i>Sparus aurata</i> . <i>Physiology and Behavior</i> , <b>2014</b> , 124, 65-71                                                                                                                                 | 3.5 | 20 |
| 31 | Potential of three new krill products for seabream larval production. <i>Aquaculture Research</i> , <b>2012</b> , 43, 395-406                                                                                                                                                                           | 1.9 | 20 |
| 30 | Modulation of selenium tissue distribution and selenoprotein expression in Atlantic salmon ( <i>Salmo salar</i> L.) fed diets with graded levels of plant ingredients. <i>British Journal of Nutrition</i> , <b>2016</b> , 115, 1325-38                                                                 | 3.6 | 19 |
| 29 | Effects of thermal stress on the expression of glucocorticoid receptor complex linked genes in Senegalese sole ( <i>Solea senegalensis</i> ): Acute and adaptive stress responses. <i>General and Comparative Endocrinology</i> , <b>2017</b> , 252, 173-185                                            | 3   | 18 |
| 28 | Increased Mauthner cell activity and escaping behaviour in seabream fed long-chain PUFA. <i>British Journal of Nutrition</i> , <b>2012</b> , 107, 295-301                                                                                                                                               | 3.6 | 18 |
| 27 | A Transgenic Camelina sativa Seed Oil Effectively Replaces Fish Oil as a Dietary Source of Eicosapentaenoic Acid in Mice. <i>Journal of Nutrition</i> , <b>2016</b> , 146, 227-35                                                                                                                       | 4.1 | 17 |
| 26 | Roles of selenoprotein antioxidant protection in zebrafish, <i>Danio rerio</i> , subjected to dietary oxidative stress. <i>Fish Physiology and Biochemistry</i> , <b>2015</b> , 41, 705-20                                                                                                              | 2.7 | 16 |
| 25 | Lipid metabolism-related gene expression pattern of Atlantic bluefin tuna ( <i>Thunnus thynnus</i> L.) larvae fed on live prey. <i>Fish Physiology and Biochemistry</i> , <b>2017</b> , 43, 493-516                                                                                                     | 2.7 | 16 |
| 24 | Molecular and functional characterisation of a putative elovl4 gene and its expression in response to dietary fatty acid profile in Atlantic bluefin tuna ( <i>Thunnus thynnus</i> ). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2020</b> , 240, 110372 | 2.3 | 15 |
| 23 | Assessment of a land-locked Atlantic salmon ( <i>Salmo salar</i> L.) population as a potential genetic resource with a focus on long-chain polyunsaturated fatty acid biosynthesis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2016</b> , 1861, 227-38            | 5   | 14 |
| 22 | Dietary DHA/EPA ratio affects growth, tissue fatty acid profiles and expression of genes involved in lipid metabolism in mud crab <i>Scylla paramamosain</i> supplied with appropriate n-3 LC-PUFA at two lipid levels. <i>Aquaculture</i> , <b>2021</b> , 532, 736028                                  | 4.4 | 13 |
| 21 | Effect of increasing docosahexaenoic acid content in weaning diets on survival, growth and skeletal anomalies of longfin yellowtail ( <i>Seriola rivoliana</i> , Valenciennes 1833). <i>Aquaculture Research</i> , <b>2018</b> , 49, 1200-1209                                                          | 1.9 | 13 |
| 20 | Molecular aspects of lipid metabolism, digestibility and antioxidant status of Atlantic bluefin tuna ( <i>T. thynnus</i> L.) larvae during first feeding. <i>Aquaculture</i> , <b>2017</b> , 479, 357-369                                                                                               | 4.4 | 9  |
| 19 | Endogenous production of -3 long-chain PUFA from first feeding and the influence of dietary linoleic acid and the -linolenic:linoleic ratio in Atlantic salmon ( <i>Salmo salar</i> L.). <i>British Journal of Nutrition</i> , <b>2019</b> , 122, 1091-1102                                             | 3.6 | 9  |
| 18 | Evaluation of different feeding protocols for larvae of Atlantic bluefin tuna ( <i>Thunnus thynnus</i> L.). <i>Aquaculture</i> , <b>2019</b> , 505, 523-538                                                                                                                                             | 4.4 | 7  |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|
| 17 | Encapsulated Fish Oil Products Available in the UK Meet Regulatory Guidelines With Respect to EPA + DHA Contents and Oxidative Status. <i>European Journal of Lipid Science and Technology</i> , <b>2018</b> , 120, 1800105                                                                                                                  | 3    | 7 |
| 16 | Effect of dietary oil from on the growth performance, fillet fatty acid profile and gut microbiome of gilthead Sea bream (). <i>PeerJ</i> , <b>2020</b> , 8, e10430                                                                                                                                                                          | 3.1  | 7 |
| 15 | Agriculture can help aquaculture become greener. <i>Nature Food</i> , <b>2020</b> , 1, 680-683                                                                                                                                                                                                                                               | 14.4 | 7 |
| 14 | Effects of dietary fatty acids on mitochondrial phospholipid compositions, oxidative status and mitochondrial gene expression of zebrafish at different ages. <i>Fish Physiology and Biochemistry</i> , <b>2015</b> , 41, 1187-204                                                                                                           | 2.7  | 6 |
| 13 | The effects of combined phytochemicals on growth and nutritional physiology of Nile tilapia <i>Oreochromis niloticus</i> . <i>Aquaculture</i> , <b>2020</b> , 519, 734867                                                                                                                                                                    | 4.4  | 6 |
| 12 | Central and peripheral clocks in Atlantic bluefin tuna ( <i>Thunnus thynnus</i> , L.): Daily rhythmicity of hepatic lipid metabolism and digestive genes. <i>Aquaculture</i> , <b>2020</b> , 523, 735220                                                                                                                                     | 4.4  | 5 |
| 11 | Development of a C18 Supercritical Fluid Chromatography-Tandem Mass Spectrometry Methodology for the Analysis of Very-Long-Chain Polyunsaturated Fatty Acid Lipid Matrices and Its Application to Fish Oil Substitutes Derived from Genetically Modified Oilseeds in the Aquaculture Sector. <i>ACS Omega</i> , <b>2020</b> , 5, 22289-22298 | 3.9  | 5 |
| 10 | Performance, feed utilization, and hepatic metabolic response of weaned juvenile Atlantic bluefin tuna ( <i>Thunnus thynnus</i> L.): effects of dietary lipid level and source. <i>Fish Physiology and Biochemistry</i> , <b>2019</b> , 45, 697-718                                                                                          | 2.7  | 5 |
| 9  | Tolerance and dose-response assessment of subchronic dietary ethoxyquin exposure in Atlantic salmon ( <i>Salmo salar</i> L.). <i>PLoS ONE</i> , <b>2019</b> , 14, e0211128                                                                                                                                                                   | 3.7  | 4 |
| 8  | Physiological pathways involved in nutritional muscle dystrophy and healing in European sea bass ( <i>Dicentrarchus labrax</i> ) larvae. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2013</b> , 164, 399-409                                                                          | 2.6  | 3 |
| 7  | Taurine metabolism and effects of inclusion levels in rotifer ( <i>Brachionus rotundiformis</i> , Tschugunoff, 1921) on Atlantic bluefin tuna ( <i>Thunnus thynnus</i> , L.) larvae. <i>Aquaculture</i> , <b>2019</b> , 510, 353-363                                                                                                         | 4.4  | 2 |
| 6  | A comparison of the use of different swab materials for optimal diagnosis of amoebic gill disease (AGD) in Atlantic salmon ( <i>Salmo salar</i> L.). <i>Journal of Fish Diseases</i> , <b>2020</b> , 43, 1463-1472                                                                                                                           | 2.6  | 2 |
| 5  | The nutritional and cardiovascular health benefits of rapeseed oil-fed farmed salmon in humans are not decreased compared with those of traditionally farmed salmon: a randomized controlled trial. <i>European Journal of Nutrition</i> , <b>2021</b> , 60, 2063-2075                                                                       | 5.2  | 2 |
| 4  | Influence of Dietary Lipids and Environmental Salinity on the n-3 Long-Chain Polyunsaturated Fatty Acids Biosynthesis Capacity of the Marine Teleost. <i>Marine Drugs</i> , <b>2021</b> , 19,                                                                                                                                                | 6    | 1 |
| 3  | Daily rhythms in the morphometric parameters of hepatocytes and intestine of the European sea bass ( <i>Dicentrarchus labrax</i> ): influence of feeding time and hepatic zonation. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>2021</b> , 191, 503-515                             | 2.2  | 1 |
| 2  | Dietary DHA and ARA level and ratio affect the occurrence of skeletal anomalies in pikeperch larvae ( <i>Sander lucioperca</i> ) through a regulation of immunity and stress related gene expression. <i>Aquaculture</i> , <b>2021</b> , 544, 737060                                                                                         | 4.4  | 1 |
| 1  | The effect of fish stocking density and dietary supplementation of vitamin C and micronutrients (Mn, Zn and Se) on the development of systemic granulomatosis in juvenile meagre ( <i>Argyrosomus regius</i> ). <i>Aquaculture Research</i> , <b>2021</b> , 52, 5703                                                                         | 1.9  | 0 |