

Accepted Manuscript

Local immune response of two mucosal surfaces of the European seabass, *Dicentrarchus labrax*, fed tryptophan- or methionine-supplemented diets

R. Azeredo, M. Machado, F.A. Guardiola, R. Cerezuela, A. Afonso, H. Peres, A. Oliva-Teles, M.A. Esteban, B. Costas



PII: S1050-4648(17)30527-2

DOI: [10.1016/j.fsi.2017.09.016](https://doi.org/10.1016/j.fsi.2017.09.016)

Reference: YFSIM 4806

To appear in: *Fish and Shellfish Immunology*

Received Date: 16 June 2017

Revised Date: 29 August 2017

Accepted Date: 3 September 2017

Please cite this article as: Azeredo R, Machado M, Guardiola FA, Cerezuela R, Afonso A, Peres H, Oliva-Teles A, Esteban MA, Costas B, Local immune response of two mucosal surfaces of the European seabass, *Dicentrarchus labrax*, fed tryptophan- or methionine-supplemented diets, *Fish and Shellfish Immunology* (2017), doi: 10.1016/j.fsi.2017.09.016.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Local immune response of two mucosal surfaces of the European seabass, *Dicentrarchus labrax*, fed tryptophan- or methionine-supplemented diets

R. Azeredo^{1,2*}, M. Machado^{1,3}, F.A. Guardiola^{1,4}, R. Cerezuela⁴, A. Afonso^{1,3}, H. Peres¹, A. Oliva-Teles^{1,2}, M.A. Esteban⁴ and B. Costas^{1,3}

¹ Centro Interdisciplinar de Investigação Marinha e Ambiental (CIIMAR), Universidade do Porto, Novo Edifício do Terminal de Cruzeiros do Porto de Leixões, Matosinhos, Portugal.

² Departamento de Biologia, Faculdade de Ciências da Universidade do Porto (FCUP), 4169-007 Porto, Portugal.

³ Instituto de Ciências Biomédicas Abel Salazar (ICBAS-UP), Universidade do Porto, Rua de Jorge Viterbo Ferreira nº 228, 4050-313 Porto, Portugal.

⁴ Department of Cell Biology and Histology, Faculty of Biology, Campus Regional de Excelencia Internacional "Campus Mare Nostrum", University of Murcia, 30100 Murcia, Spain.

***Corresponding authors:**

Rita Azeredo

Benjamín Costas

Centro Interdisciplinar de Investigação Marinha e Ambiental (CIIMAR), Novo Edifício do Terminal de Cruzeiros do Porto de Leixões, 4450-208 Matosinhos, Portugal

Tel. +351 223401850; fax +351 223401838; Email addresses: mleme@ciimar.up.pt; bcostas@ciimar.up.pt

Download English Version:

<https://daneshyari.com/en/article/5540265>

Download Persian Version:

<https://daneshyari.com/article/5540265>

[Daneshyari.com](https://daneshyari.com)