

# PACIO

## Publications

Cominassi L., Moyano M., Claireaux G., Howald S., Mark F.C., Zambonino-Infante J.-L. et Peck M.A. (2020). Food availability modulates the combined effects of ocean acidification and warming on fish growth. *Sci Rep* 10, 2338 (2020). <https://doi.org/10.1038/s41598-020-58846-2>

Mazurais D., Servili A., Le Bayon N., Gislard S., Madec L. et Zambonino-Infante J.-L. (2020). Long-term exposure to near-future ocean acidification does not affect the expression of neurogenesis- and synaptic transmission-related genes in the olfactory bulb of European sea bass (*Dicentrarchus labrax*). *Journal of Comparative Physiology B*, Volume 190:161–167.

Mazurais D., Servili A., Noel C., Cormier A., Collet S., Leseur R., Le Roya M., Vitré T., Madec L., Zambonino-Infante J.-L. (2020). Transgenerational regulation of *cbln11* gene expression in the olfactory rosette of the European sea bass (*Dicentrarchus labrax*) exposed to ocean acidification. *Marine Environmental Research*, Volume 159, 105022.

Cominassi L., Moyano M., Claireaux G., Howald S., Mark F.C., Zambonino-Infante J.-L., Le Bayon N. et Peck M.A. (2019). Combined effects of ocean acidification and temperature on larval and juvenile growth, development and swimming performance of European sea bass (*Dicentrarchus labrax*). *PLOS One*, <https://doi.org/10.1371/journal.pone.0221283>

Crespel A., Anttila K., Lelièvre P., Quazuguel P., Le Bayon N., Zambonino-Infante J.-L., Chabot, D. et Claireaux G. (2019). Long-term effects of ocean acidification upon energetics and oxygen transport in the European sea bass (*Dicentrarchus labrax*, Linnaeus). *Mar Biol* 166, 116. <https://doi.org/10.1007/s00227-019-3562-9>

Howald S., Cominassi L., Le Bayon N., Claireaux G. et Mark F.C. (2019). Future ocean warming may prove beneficial for the northern population of European seabass, but ocean acidification will not. In collection *Ecophysiology: responses to environmental stressors and change*, *J Exp Biol* 222: jeb213017. <https://doi.org/10.1242/jeb.213017>

Kunz K.L., Claireaux G., Pörtner H.O., Knust R. et Mark F.C. (2018). Aerobic capacities and swimming performance of polar cod (*Boreogadus saida*) under ocean acidification and warming conditions. In collection *Ecophysiology: responses to environmental stressors and change*. *J Exp Biol* 221: jeb184473. <https://doi.org/10.1242/jeb.184473>

Crespel A., Zambonino-Infante J.-L., Mazurais D., Koumoundouros G., Fragkoulis S., Quazuguel P., Huelvan C., Madec L., Servili A. et Claireaux G. (2017). The development of contemporary European sea bass larvae (*Dicentrarchus labrax*) is not affected by projected ocean acidification scenarios. *Mar Biol* 164, 155. <https://doi.org/10.1007/s00227-017-3178-x>

**Liste des communications orales posters de conférences, passées ou prévues :**

## Thèses

Cominassi Louise, Faculty of Mathematics, Informatics and Natural Sciences, Department of Biology, University of Hamburg, Institute of Marine Ecosystem and Fisheries Science, 2019. *Combined effects of ocean acidification and warming on a large pelagic fish, the European sea bass (*Dicentrarchus labrax*)*.

Howald Sarah, Institut für Hydrobiologie und Fischereiwissenschaft, University of Hamburg (2021). *Transgenerational effects on the metabolism of the European sea bass (*Dicentrarchus labrax*) in the context of ocean acidification and warming*.

## Master

Parisi Costantino, Université de Bretagne Occidentale, Sciences de la mer et du littoral, Sciences biologiques marine, 2018. *Acidification des océans : influence sur la relation entre croissance somatique et croissance de l'otolithe chez le bar Européen *Dicentrarchus labrax**.

Scheuffele Hanna, Alfred Wegener Institute (Biosciences, Integrative Ecophysiology), 2019. *Effects of Ocean Acidification on the phenotypic plasticity and functional properties of European sea bass (*Dicentrarchus labrax*) haemoglobin*.

Soudé Espoir, Université de Bretagne Occidentale, Sciences de la mer et du littoral, Sciences biologiques marine, 2019. *Effet de la teneur en CO<sub>2</sub> de l'eau sur la sociabilité du bar *Dicentrarchus labrax**.

Le Garrec Soizig, Université de Bretagne Occidentale, Sciences de la mer et du littoral, Sciences biologiques marine, 2020. *Effets de l'acidification des océans sur le comportement du bar européen *Dicentrarchus labrax**.

## Communications :

Cominassi, L., Moyano, M., Claireaux, G., Quazugel, P., Howald, S., Mark, F.C., Zambonino Infante, J.-L. et Peck, M.A. (2016) *Combined influences of water pH and temperature upon the swimming capacity of European sea bass larvae*. Affiche, congrès annuel de la Société for Experimental Biology, Brighton, RU.

Cominassi L., Kempf S., Scheuffele H., Claireaux G., Ollivier H., Le Bayon N., Bock C. et Mark F.C. (2017). *Changes in metabolome and mitochondrial respiration in European sea bass hearts under ocean acidification and warming*. Affiche, congrès annuel de la Société for Experimental Biology, Gothenburg, Suède.

Cominassi, L., Moyano, M., Claireaux, G., Howald, S., Zambonino, J.-L., et Mark, F.C. (2017). *Combined effects of ocean acidification and temperature on the swimming capacity of European seabass larvae*. Affiche, congrès annuel de la Société for Experimental Biology, Gothenburg, Suède.

Howald, S., Kempf, S., Scheuffele, H., Claireaux, G., Ollivier, H., Cominassi, L., Le bayon, N., Bock, C., Mark, F.C. (2017). *Changes in metabolome and mitochondrial respiration in European seabass hearts under OAW*. Affiche, congrès annuel de la Société for Experimental Biology, Gothenburg, Suède.

Cominassi L., Moyano, M., Peck M.A., Claireaux G., Quazuguel P. et Mark F.C. (2018). *Developmental effects of ocean acidification and warming in larvae of European sea bass*. Affiche, congrès annuel de la Société for Experimental Biology, Florence, Italie.

Cominassi L., Scheuffele H., Claireaux G., Ollivier H., Le Bayon N. et Mark F.C. (2018). Mitochondrial metabolism under prolonged ocean acidification and warming in European sea bass hearts. Présentation orale. Congrès annuel de la Société for Experimental Biology, Florence, Italie.

Howald, S., Cominassi, L., Scheuffele, H., Claireaux, G., Ollivier, H., Le Bayon, N., et Mark, F.C. (2018). *Mitochondrial metabolism under prolonged ocean acidification and warming in European seabass hearts*. Présentation orale, congrès annuel de la Société for Experimental Biology, Florence, Italie.

Cominassi, L., Moyano, M., Claireaux, G. et Peck, M.A., (2018). *Combined effects of ocean acidification, warming and food availability on the growth and digestion of juvenile European seabass (Dicentrarchus labrax)*. Présentation orale, congrès annuel de la Société for Experimental Biology, Florence, Italie.

Scheuffele H., Mazurais, D., Le Duff, N., Claireaux, G. et Mark, F.C. (2018). *Effects of ocean acidification on the phenotypic plasticity and functional properties of the European seabass (Dicentrarchus labrax) haemoglobin*. Présentation orale, congrès annuel de la Société for Experimental Biology, Florence, Italie.

#### **Liste des propositions soumises ou prévues (avec dates limites de soumission) :**

Programme en cours mais aucun dossier de demande de financement n'est actuellement en cours d'évaluation.

#### **Activités de sensibilisation et de diffusion :**

Les travaux de PACIO ont d'ores et déjà fait l'objet de nombreuses publications scientifiques et ont formé la base de communications lors de congrès internationaux, de cours universitaires et de diffusions grand public, notamment dans le cadre des cycles de conférences organisés par les Universités du Temps Libre de Bretagne, l'Ifremer et Océanopolis.