

Curriculum Vitae



Rodrigo Ozório

1. Personal Information

Name: Rodrigo Ozório
Name in scientific citations: **OZORIO, R.O.A.** or **OZORIO, R.**
National ID number: 15119260
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2. Scientific Leadership Profile

Rodrigo Ozorio (RO) have developed an integrative approach to study nutritional dynamics of fish, fish physiology and metabolism, using molecular, cellular tools combining with the indicators at whole organism level for the understanding of the basis of animal performance. RO obtained a Ph.D. degree in 2001 at Wageningen University and Research Centre (The Netherlands), working with prof. Dr. Bram Huisman, Prof. Dr. Johan Verreth, who had important role in the development of the basis of the modern fish nutrition studies. For the post-graduate training RO applied commonly used methodology in animal nutrition and physiology and helped to developed novel concepts on the role of dietary supplements in the dietary energy mobilization under different abiotic and biotic conditions. These studies are published in international referred journals with high impact factors in the field of nutrition. During the development of the scientific career, RO focused on the research of the biological basis for promoting sustainable aquaculture, using microscopy techniques, biochemistry, physiology and molecular biology. Special attention has been given to the study of the nutritional dynamics of fish and the economic potential of new aquaculture species based on a set of husbandry and physiological criteria. To do so, RO carried out a concerted effort to identify bioindicators of physiological condition, nutritional status, growth potential and quality of fish.

Currently, as a senior researcher, RO is a National Delegate in a COST action entitled CephInAction - A network for improvement of cephalopod welfare and

husbandry in research, aquaculture and fisheries (http://www.cost.eu/domains_actions/fa/Actions/FA1301). RO also coordinated an IBEROEKA network. RO was advisor of a posdoc research, he is/was a supervisor of 8 PhD theses and 15 MSc theses. RO participated in 20 national and international projects, including 2 as project leader and 4 as scientific leader, in an overall budget of over 2.0 million euros. RO have published 54 papers in international peer review journals. RO is a regular reviewer for several international journals of high impact in the Animal and Nutritional Science, including "Aquaculture Nutrition" , "Aquaculture Research" , "Journal of the World Aquaculture Society " , "Scientia Agricola" , "Animal Feed Science and Technology “, " Journal of Applied Aquaculture ". RO is currently an Associate Editor of "Journal of Applied Aquaculture". Currently, RO is focusing on how nutritional factors may modulate fish biology, and how the interaction between both may play a role in the resistance against different biotic and abiotic stressors.

3. Education

2002-2003 Posdoc in Aquaculture. São Paulo University (USP), Brazil. Project “Polissacarídeos não amiláceos na dieta de peixes carnívoros e herbívoros – efeitos no desempenho nutricional, fisiologia e ecologia do trato digestório”, advised by Dr. José Eurico Possebon Cyrino.

1996-2001 PhD in Animal Sciences. Wageningen University and Research Centre, NL. Thesis in “Dietary L-carnitine and energy and lipid metabolism in African catfish (*Clarias gariepinus*) juveniles”, supervised by Dr. Bram Huisman, Dr Johan Verreth and Dr. Johan Schrama.

1993-1995 MSc in Aquaculture. Wageningen University and Research Centre, NL. Thesis in “Dietary influences on Amino Acid Metabolism of *Clarias gariepinus* (Burchell, 1822) larvae”, supervised by Dr Johan Verreth and MSc Luis E. Conceição.

1984-1989 Licenciature in Biological Sciences. Universidade Santa Úrsula, RJ, Brazil

4. Employment History

2014 - present Affiliated Professor, Biomedical Sciences Institute of Abel Salazar (ICBAS), University of Porto, Portugal.

2003 - present Researcher (permanent position). Interdisciplinary Centre of Marine and Environmental Research (CIIMAR), Portugal.

5. Grants (22)

26. 2018-2020 Mecanismos moleculares implicados en el carácter probiótico de *Shewanella putrefaciens* Pdp11 (SpPdp11). Funding: Plan Nacional I+D+I, MINECO (Spain) no valor de €125,000.00, tendo-lhe sido atribuída a seguinte referência: AGL2014-51839-C5-2R. (Submitted Jul 2017). Project Leader: Miguel Angel Morinigo (UMA, Spain)

25. 2018 - 2022 SMARTACQUA - Valorization of aquaculture waste streams into protein and high value bio-products to enhance fish productivity (H2020-BBI-JTI-2017, no valor de €4,895,616.00 (CIIMAR: €344,000.00), tendo-lhe sido atribuída a seguinte referência: 792282. (Submitted Set 2017)

24. 2018 – 2019 MODEL FISH-TECH – Aplicação Tecnológica do Modelo Preditivo de Ingestão Alimentar como Ferramenta de Controlo Ambiental em Produção Aquática. Concurso PORTUGAL 2020, edital 03/SI/2017, no valor de € 678.186 (CIIMAR: € 40,000.00) (Submitted Jun 2017)

23. 2018 – 2021 MYCOFISH - Characterization, effects and early detection of mycotoxin contamination in aquafeed and food fish from aquaculture. Concurso FCT (reference: 031662), no valor de € 239.987,39 (CIIMAR: € 120,000.00). (Submitted May 2017)

22. 2017-2017 IMPROV-SEABASS - Effect of dietary *Gracilaria* sp. supplementation on the transcriptional response of European seabass (*Dicentrarchus labrax*) to a bacterial challenge. Entidade Financiadora: AQUAEXCEL 2020, project under Horizon 2020 (reference 0AE040085). Entidade Acolhimento: CSIC-IATS (Espanha). Project leader: Rodrigo Ozorio (CIIMAR-UP).

21. 2017-2020 AQUAHEAL: Modulação microbiana em aquaculturas com sistema de recirculação: em direção de um sistema de produção supressor de doenças. Entidade Financiadora: FEAMP através do MAR 2020 (aviso 04/2016). Regime de Apoio e Desenvolvimento Sustentável da Aquicultura, nos Domínios da Inovação, do Aconselhamento e dos Investimentos Produtivos. (Referencia 16-02-01-FMP-00-31). Project leader: Newton Gomes (Univ. Aveiro). APPROVED MARCH 2017. (€

247.771,00)

20. 2017-2020 CRASS-TECH: Abordagem integrada para a valorização da ostra-do-pacífico: desenvolvimento de metodologias de produção e autenticação. Entidade Financiadora: FEAMP através do MAR 2020 (aviso 04/2016). Regime de Apoio e Desenvolvimento Sustentável da Aquicultura, nos Domínios da Inovação, do Aconselhamento e dos Investimentos Produtivos (Referencia 16-02-01-FMP-0079). Project leader: Rodrigo Ozorio (CIIMAR-UP). APPROVED MARCH 2017. (€ 219.469,00)

19. 2014-2015 MODEL FISH – Modelo Predictivo de Ingestão Alimentar como Ferramenta de Controlo Ambiental em Produção Aquática”. Entidade Financiadora: PROMAR - Eixo III, reference (31-03-01-FEP-0152). (€ 120,000). Project leader: Rodrigo Ozorio (CIIMAR-UP).

18. 2014-2015 ALGAE-SPARUS - The transcriptional response of gilthead sea bream liver to crowding stress and dietary seaweed extract inclusion. Entidade Financiadora: AQUAEXCEL project under FP7, Capacities; Research Infrastructures Programme (reference 0132/09/04/14b). Entidade Acolhimento: CSIC-IATS (Espanha). Project leader: Rodrigo Ozorio (CIIMAR-UP).

17. 2014-2015 SEAWEEDPLUS - Seaweed extract supplementation on seabass metabolism. AQUAEXCEL project under FP7, Capacities; Research Infrastructures Programme (reference 0094/07/15/32). Entidade Acolhimento: IMARES-DLO (Holanda). Project leader: Rodrigo Ozorio (CIIMAR-UP).

16. 2014-2015 PROBIOFISH - Probiotic supplementation on Solea senegalensis diet: Effects on Growth performance and immune status. AQUAEXCEL project under FP7, Capacities; Research Infrastructures Programme (reference 0112/07/04/14a). Entidade Acolhimento: CSIC-IATS (Espanha). Project leader: Rodrigo Ozorio (CIIMAR-UP).

15. 2014-2015 Impact of dietary cation anion difference and water oxygen level on voluntary feed intake energy partitioning and stress responsiveness in rainbow trout (*Oncorhynchus mykiss*). AQUAEXCEL project under FP7, Capacities; Research Infrastructures Programme. Coordenadores: Patrick Prunet, Johan Verreth, Johan Schrama. Entidade Acolhimento: Wageningen University, Holanda; INRA, St-Pée/Nivelle, França.

14. 2014-2018 ARAPAIMA - Bioprospecção e Desenvolvimento de Dietas Imunoestimulantes para Alevinos e Juvenis de Pirarucu (*Arapaima gigas*)”. Programa Pró-Amazônia (edital nº047/2012).. Entidade Financiadora: CAPES (total: 1.580 milhão reais = 500.000 €). Coordenador: UFAC, Brasil., Consultor científico: Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP).

13. 2013-2015 SEABIOPLAS – Seaweeds from sustainable aquaculture as

feedstock for biodegradable bioplastics. Entidade Financiadora Projecto: Seventh Framework Programme - FP7 - SME-2012, no valor de €1,929,269.00 (CIIMAR: €150,000), tendo-lhe sido atribuída a seguinte referência: Funding scheme - BSG-SME, project ID: 606032. (Concluded in December 2015)

12. 2013-2015 ALGADOURADA – Selection and evaluation of seaweed species as an additive for seabream (*Dicentrarchus labrax*) diets. Entidade Financiadora Projecto: PROMAR - Eixo III - Projecto Piloto no valor de €250,000,00 (CIIMAR: €78,000), tendo-lhe sido atribuída a seguinte referência: 31-03-05-FEP-0041. Coordenador científico: Dr. Rodrigo Ozório (CIIMAR). Project leader: Rodrigo Ozorio (CIIMAR-UP).

11. 2013-2015 PSYCOBASS - Aquatic species under psycho pharmaceuticals neuroendocrine effects. Concurso FCT, referência: PTDC /AAG-MAA/2405/2012.

10. 2010 - 2013 PROBIO-SOLEA – Selection and evaluation of probiotic strains for use in sole (*Solea senegalensis*) aquaculture. Quadro de Referência Estratégico Nacional (QREN), SI I&DT – co-promoção, candidaturas n.º 35/SI/2009. (Budget: € 550.000). Project leader: Rodrigo Ozorio (CIIMAR-UP).

09. 2010-2014 PROBIO-PEIXE – Sustainable aquaculture development: Use of probiotics and plant based diets. Rede IBEROEKA, referencia: IBK 10-633. Project leader: Rodrigo Ozorio (CIIMAR-UP).

08. 2009-2013 PROBIO-CÓBIA - Desenvolvimento sustentável do cultivo de bijupirá (*Rachycentron canadum*): Uso de probióticos e uso de dietas vegetais. Edital Ciências do Mar Nº. 09/2009, CAPES (Budget: € 500.000).

07. 2009-2013 Gestão e Sustentabilidade do Agronegócio do Pescado Marinho com Foco Na Reciclagem e Utilização dos Resíduos – Ações de Natureza Ambiental e Tecnológica para Minimizar o Impacto Adverso dos Descartes. Edital Ciências do Mar Nº. 09/2009, CAPES.

06. 2009-2012 PROAMBIENTE – Dietas sustentáveis e de Reduzido Impacto Ambiental para o Linguado Senegalês. Quadro de Referência Estratégico Nacional (QREN), SI I&DT – co-promoção, candidaturas n.º 22/SI/2008.

05. 2009-2012 ECOPISCIS - Waste Management in Fish Production. Funded by ADI through the QREN (Quadro de Referencia Estratégico Nacional, Portugal), aviso 09/SI/2008 (Budget: € 520.000).

04. 2009-2012 Ion and iron regulatory physiology in the marine lamprey (*Petromyzon marinus*). A parasitic feeder. Concurso FCT, referência: PTDC/MAR/098035/2008.

03. 2003-2006 Nutritional Requirements of blackspot seabream (*Pagellus*

bogaraveo), a new European aquaculture species (FCT: POCTI/CVT/39239) (Budget: € 130.000).

02. 2002-2005 YEAST-TILAPIA - Dried Yeast as a protein source in the diets of Tilapia (*Oreochromis niloticus*) e Pacu (*Piaractus mesopotamicus*): Effects on Growth Performance, Physiology and Digestibility of Feed Ingredients. Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq). Project leader: Rodrigo Ozorio (CIIMAR-UP).

01. 1996-2001 Effect of Dietary Carnitine in Fish Metabolism (Budget: € 160.000). Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq). PhD funding.

6. Administrative Positions

2015 - present Director of the Sea Itinerant University (UIM) at Creoula sailing vessel (Portuguese Navy), University of Porto, Portugal.

2013 - present Member of the Management Committee of the COST Action FA1301 - A network for improvement of cephalopod welfare and husbandry in research, aquaculture and fisheries (EU). <http://www.cephsinaction.org/>

2012-present - Services management and infrastructures officer

2011 Portuguese coordinator of the Sea Itinerant University (UIM), University of Porto, Portugal.

7. Teaching Experience

2014 – 2017 Lecturer Nutrition and Feeding in Aquaculture (MA313)

2006-2011 Invited lecturer Nutrition and Feeding in Aquaculture (MA313),

2002-2003 Invited Lecturer in Fish Nutrition for the BSc course. University of São Paulo (USP), Brasil.

1996-2001 Teaching Assistant in Fish Nutrition for the MSc course (E450-217). Wageningen University and Research Centre, NL.

8. Language

Understanding: Portuguese, (Very good), Spanish (Good), Dutch (Good), English (Very good), Italian (Good).

Speaking: Portuguese, (Very good), Spanish (Fair), Dutch (Fair), English (Very good), Italian (Fair).

Reading: Portuguese, (Very good), Spanish (Good), Dutch (Good), English (Very good), Italian (Good).

Writing: Portuguese, (Very good), Spanish (Fair), Dutch (Fair), English (Very good), Italian (Fair).

9. Scientific Production

9.1. Publications

10.1.1. Full Papers in Conference Proceedings

1. Ramos M.A., Gonçalves J.F.M., Costas B., Batista S., Marujo V., Ramos B., Rema P., **Ozório R.** 2012. Dietary probiotics supplementation on growth performance and immune responses in rainbow trout. *IV Foro Iberoam. Rec. Mar. Acui.* pp: 211-218
2. **Ozório, R.O.A.** and Valenti, W.C. 2009. Current status and future perspectives of the Brazilian aquaculture sector. *In XVIII Congresso de Zootecnia. II Congresso Ibero-Americano de Zootecnia*, 6-9 May, 2009, Vila Real, Portugal, pp.546-553.
3. Rema, P., **Ozório, R.O.A.**, Puga, C., Pousao-Ferreira, P. and Valente, L.M.P. 2005. Replacing fish oil with Soya-lecithine in diets of gilthead seabream (*Sparus aurata*). *In XV Congresso de Zootecnia. I Congresso Ibero-Americano de Zootecnia*, 2-5 November, 2005, Vila Real, Portugal, pp.77-82.
4. **Ozório, R.O.A.**, Iftoda, R.M. and Cyrino, J.E.P. 2003. Efeito de diferentes níveis dietéticos de levedura desidratada (*Saccharomyces cerevisiae*) sobre o desempenho e a composição corporal da Tilápia-do-Nilo (*Oreochromis niloticus*) revertida sexualmente. *In II Congresso Internacional Virtual de Acuicultura*, 89-98. (<http://www.revistaaquatic.com/civa2003/coms/completo.asp?cod=10>)
5. **Ozório, R.O.A.** and Eding, E. 2002. Estado-da-arte dos sistemas intensivos de recirculação de água para a piscicultura. *In XII Simpósio Brasileiro de Aquicultura*, Goiânia, Brazil, 24-29 Jun, 2002.
6. **Ozório, R.O.A.** 2001. Dietary carnitine maintains muscle energy reserves and delays fatigue in exercised African catfish fed high fat diets. *In WIAS Annual Report*, WIAS Science day, Wageningen, The Netherlands, 2001.

7. **Ozório, R.O.A.**, Aragao, C., Sasse, R., Booms, G.H.R. and Verreth, J.A.J. 1998. The effect of L-carnitine on body composition and growth in juveniles of African catfish. A special attention on liver, muscle and plasma composition. In *Desenvolvimento e sustentabilidade*, I Congresso Sul-Americano de Aquicultura, Recife, Brazil, 2-6 Set., 1998.

9.1.2. Abstracts in Conference Proceedings

1. Magnoni LJ, Salas-Leiton E, Peixoto MJ, Pereira L, Silva-Brito F, Fontinha F, Gonçalves J, Schrama JW, **Ozório ROA**. Effects of dietary electrolyte balance on growth performance, nutrient digestibility and energy use in meagre (*Argyrosomus regius*). 30th Congress of the New European Society for Comparative Physiology and Biochemistry/ Barcelona/ Spain (2016)
2. Magnoni LJ, Querioz A, Martos-Sitcha JA, Tromp K, Schrama JW, Gonçalves J, Caldach-Giner JA, **Ozório ROA** and Pérez-Sánchez J. Effects of dietary seaweed supplementation on hypoxia tolerance and oxidative stress response in gilthead sea bream (*Sparus aurata*). 30th Congress of the New European Society for Comparative Physiology and Biochemistry/ Barcelona/ Spain (2016)
3. Magnoni L, Novais SC, Silva CO, Lemos MF, Ozorio R, Geurden I, Leguen I, Prunet P, Eding E and Schrama J (2016). The impact of nutritional and environmental stressors on the immune response, oxidative stress and energy use of rainbow trout (*Oncorhynchus mykiss*). Front. Mar. Sci. Conference Abstract: IMMR | International Meeting on Marine Research 2016. doi: 10.3389/conf.FMARS.2016.04.00008.
4. Ramos M.A., Ramos C., Pereira L.F., Ozório R. and Rema P. 2014. Effect of dietary probiotic dose and duration on growth performance and digestibility in juvenile tilapia (*Oreochromis niloticus*). Conference abstract: Aquaculture Europe 2014. Donostia–San Sebastián, Spain.
5. Machado S.P., Peixoto M.J., Semedo M., Reis-Henriques M.A., **Ozório R.O.A.**, Ferreira M. 2015. Aquatic species under psychopharmaceuticals neuroendocrine effects. 18th International Symposium on Pollutant Responses in Marine Organisms (PRIMO18), 24-27 May, 2015, Trondheim, Norway.
6. Pereira LF, Gonçalves J, Domingues AF, Peixoto MD, Braga SF, Sansuwan K, Santos G and **Ozorio ROA** (2014). Dietary probiotic supplementation improved gut amylase to trypsin ratio in European seabass reared at different temperatures and survival after handling stress. Front. Mar. Sci. Conference Abstract: IMMR | International Meeting on Marine Research 2014. doi: 10.3389/conf.FMARS.2014.02.00016 (ORAL PRESENTATION).

7. Domingues AF, Peixoto MD, Batista SG, Gomes A, Manaia CM, Gonçalves JM, Cunha S, Barros R, Valente LP, Costas B and **Ozorio ROA** (2014). Effect of dietary probiotic supplementation on growth and innate immune system in sole (*Solea senegalensis* Kaup, 1858) subjected to pathogenic bacteria infection and handling stress. Front. Mar. Sci. Conference Abstract: IMMR | International Meeting on Marine Research 2014. doi: 10.3389/conf.FMARS.2014.02.00019
8. Queiroz AC, Pereira R, Domingues AF, Peixoto MD, Gonçalves JM and **Ozorio ROA** (2014). Effect of seaweed supplementation on growth performance, immune and oxidative stress responses in gilthead seabream (*Sparus aurata*). Front. Mar. Sci. Conference Abstract: IMMR | International Meeting on Marine Research 2014. doi: 10.3389/conf.FMARS.2014.02.00018
9. Silva-Brito F, Fonseca S, Peixoto MD, Domingues AF, Damasceno-Oliveira A, Gonçalves J, Castro FC, Cunha I and **Ozorio ROA** (2014). Metabolic regulation in meagre, *Argyrosomus regius* (Asso, 1801): Study of gene-diet interactions on lipid metabolism. Front. Mar. Sci. Conference Abstract: IMMR | International Meeting on Marine Research 2014. doi: 10.3389/conf.FMARS.2014.02.00014.
10. Simões T, Fonseca S, Granada L, Augusto AL, **Ozorio ROA**, Gonçalves JF, Silva JH and Lemos MF (2014). Dietary Content and Type of Lipids and Selenium Supplement on Fatty Acid Profile in Meagre (*Argyrosomus regius*). Front. Mar. Sci. Conference Abstract: IMMR | International Meeting on Marine Research 2014. doi: 10.3389/conf.FMARS.2014.02.00009.
11. Peixoto MD, Abreu H, Domingues AF, Queiroz AC, Pereira LF, Magalhães FA, Gonçalves JF, Reis PA and **Ozorio ROA** (2014). SEABIOPLAS project Seaweed co-products as micro-additives in fish feed . Front. Mar. Sci. Conference Abstract: IMMR | International Meeting on Marine Research 2014. doi: 10.3389/conf.FMARS.2014.02.00017.
12. Magalhães FA, Fonseca SB, Pereira LF, Ribeiro L, Santos M, Gonçalves JM, Green KS, Peixoto MD, Domingues AF, Da Silva JV and **Ozorio ROA** (2014). Effects of dietary fish oil replacement by vegetable oil on the digestive enzymes activity and intestinal morphology in Meagre, *Argyrosomus regius* (Asso, 1801). Front. Mar. Sci. Conference Abstract: IMMR | International Meeting on Marine Research 2014. doi: 10.3389/conf.FMARS.2014.02.00015.
13. Fonseca SB, Magalhães FA, Gravato C, Soares AM, Gonçalves JM, Peixoto MD, Domingues AF, Da Silva JV, Gonçalves GS and **Ozório ROA** (2014). Antioxidant capacity of meagre (*Argyrossomus regius*) fed different lipid content and source, with and without selenium . Front. Mar. Sci. Conference Abstract: IMMR | International Meeting on Marine Research 2014. doi: 10.3389/conf.FMARS.2014.02.00142.
14. Batista S, Faria P, Costas B, Fernandes JO, Valente LP and **Ozório ROA**

- (2014). Use of probiotics intercropped with plant protein diets and their influence on the growth performance and immunological status of Senegalese sole (*Solea senegalensis*). Front. Mar. Sci. Conference Abstract: IMMR | International Meeting on Marine Research 2014. doi: 10.3389/conf.FMARS.2014.02.00108.
15. S. Batista, S.T. Tapia-Paniagua, M.A. Moriñigo, J.A. Nuñez-Díaz, J.F.M. Gonçalves, R. Barros, B. Cristóvão, L.M.P. Valente, **R.O.A. Ozório** (2013) Expression of immune response genes in sole (*Solea senegalensis*, Kaup 1858) induced by dietary probiotic supplementation following exposure to *Photobacterium damsela* subsp. *piscicida*. Fish & Shellfish Immunology 34 (6), 1638–1639. I International Conference of Fish and Shellfish Immunology, June 25-28, Vigo, Spain. DOI: 10.1016/j.fsi.2013.03.015.
 16. Ramos M.A., Gonçalves J.F., Costas B., Batista S., Rema P., **Ozório R.O.A.** 2013. Rainbow trout (*Oncorhynchus mykiss*) immune parameters are modulated after dietary probiotic supplementation. Fish & Shellfish Immunology, 34 (6), 1732 – 1732. (DOI: 10.1016/j.fsi.2013.03.293).
 17. Ramos M.A., Gonçalves J.F., Costas B., Batista S., Rema P., **Ozório R.O.A.** 2013. Rainbow trout (*Oncorhynchus mykiss*) immune parameters are modulated after dietary probiotic supplementation. Fish & Shellfish Immunology, 34 (6), 1732 – 1732. I International Conference of Fish and Shellfish Immunology, June 25-28, Vigo, Spain. doi: 10.1016/j.fsi.2013.03.293.
 18. Ramos, M.A., Kopecka-Pilarczyk J., Gonçalves, J.F.M., Pires, M.A., Martins, P., Silva, A., Rema, P., **Ozório, R.** 2012. Growth performance, gut morphology and oxidative stress responses of rainbow trout (*Oncorhynchus mykiss*) and brown trout (*Salmo trutta*) fed dietary probiotic supplementation. XV International Symposium on Fish Nutrition and Feeding (ISFNF), June 4-7, 2012, Molde, Norway.
 19. Ramos, M.A., Gonçalves, J.F.M., Costas, B., Batista, S., Lochmann, R., Rema, P. and **Ozório, R.** 2012. Immune responses in rainbow trout (*Oncorhynchus mykiss*) and brown trout (*Salmo trutta*) fed dietary probiotic supplementation. XV International Symposium on Fish Nutrition and Feeding (ISFNF), June 4-7, 2012, Molde, Norway.
 20. Batista S., Cabral E.M., Valente L.M.P., Fernandes J.M.O., Castro-Cunha M., **Ozório R.O.A.** 2012. Innate immune status of Senegalese sole (*Solea senegalensis*, Kaup 1858) fed increasing levels of plant protein sources. XV International Symposium on Fish Nutrition and Feeding (ISFNF), June 4-7, 2012, Molde, Norway.
 21. Batista S., Ramos M. A., Rema P., Valente L.M.P., **Ozório R.O.A.** 2012. Immune responses and growth performance of Senegalese sole (*Solea senegalensis*, Kaup 1858) fed diets supplemented with different probiotics. XV International Symposium on Fish Nutrition and Feeding (ISFNF), June 4-7, 2012,

Molde, Norway.

22. Cabral E.M., Castro-Cunha M., **Ozório R.O.A.**, Valente L.M.P. 2012. Total replacement of fishmeal in market sized Senegalese sole. XV International Symposium on Fish Nutrition and Feeding (ISFNF), June 4-7, 2012, Molde, Norway.
23. Moraes, J.R.E., Mello, H., Shimada M.T., Moraes F.R., **Ozório R.O.A.** 2012. Effects of probiotic bacteria on the microscopic anatomy of the small intestine in tilapia *Oreochromis niloticus* (LINNAEUS, 1757). European Aquaculture 2012, September 1 - 5, 2012, Prague, Czech Republic.
24. Araújo M. J., **Ozório, R.O.A.**, Bessa, R.J.B., Antunes, C. 2012. Sea-lamprey nutritional profile and reference intake values for human consumption during reproductive migration. European Aquaculture 2012, September 1 - 5, 2012, Prague, Czech Republic.
25. Ramos, M.A., Gonçalves, J.F.³, Costas B., Marujo, V., Ramos, B., Rema, P., **Ozório, R.** 2011. Effects of dietary probiotics supplementation on growth performance and immune responses in rainbow trout (*Oncorhynchus mykiss*). IV FIRMA – Forum Ibero-Americano dos Recursos Marinho e da Aquacultura, October 27-29, 2011, Viana do Castelo, Portugal. (Poster)
26. **Ozorio, R.O.A.** 2011. Maneio Nutricional e Alimentar em Peixes. Workshop Aquacultura sustentável e novas tecnologias, 22 July, Porto, Portugal. (Oral)
27. Mello, H., Moraes, J.R.E., Niza, I.G., Moraes, F.R., **Ozório, R.O.A.**, Belo, M.A.A., Manrique, W.G., Claudiano, G.S., Loureiro B.A. 2011. Dietary Supplementation with Pas-Tr on Productive Performance and Survival of Nile Tilapia *Oreochromis niloticus*. World Aquaculture 2011, June 6 - 10, 2011, Natal, Brazil. (pag. 734). (Poster 944)
28. Mello H.; Moraes J.R.E., Loureiro B.A., Niza I.G., Moraes F.R., **Ozório R.O.A.**, Claudiano G.S., Manrique W.G., Petrillo T.R. and Napoleão S.R. PAS-TR Use as Probiotic to Nile Tilapia *Oreochromis Niloticus*: Performance Evaluation. World Aquaculture 2011, June 6 - 10, 2011, Natal, Brazil (pag. 735). (Poster 945)
29. Ferraz de Arruda, L., Figueiredo, A.G., **Ozorio, R.**, Vaz-Pires, P., Ramos, B., Gonçalves, J.F., Oetterer, M. 2011. Utilization of fish silage in feed formulation for sargo *Diplodus sargus*. World Aquaculture 2011, June 6 - 10, 2011, Natal, Brazil. (Poster 881, pg.)
30. Gonçalves, J., Café, C., **Ozório, R.O.A.**, Marques, M., Correia, N. , Gomes, R., Fernandes, F., Teles, T., Calheiros, J. and Bordalo, A.A. 2010. A novel floating waste treatment plant for inland cage aquaculture. Aquaculture Europe 2010, October 5-8, 2010, Porto, Portugal.

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9.1.3. Publications in Periodic Journals

10.1.3.1 In edition (6)

1. Batista S., Gravato C., Gonçalves J.F.M., Valente L.M., **Ozório R.O.A.** 2017. Antioxidant responses induced by *Photobacterium damsela* subsp *piscicida* in Senegalese sole (*Solea senegalensis*, Kaup 1858) fed monospecies and multispecies probiotics.
2. Magnoni L.J., Eding E., Leguen I., Prunet P., Geurden I., **Ozório, R.O.A.**, Schrama J.W. 2017. Hypoxia, but not dietary electrolyte balance, reduces voluntary feed intake and growth performance in a rainbow trout (*Oncorhynchus mykiss*) isogenic line.
3. Mohseni M., Pourkazemi M., BAI S.C., **Ozorio R.O.A.** and Browdy C. 2017. The effects of dietary selenium and copper on the oxidative stress responses in Beluga, *Huso huso*.

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6. Peixoto M.J, Magnoni L.J., Pérez-Sánchez J., **Ozório R.O.A.** 2017. Transcriptomic and physiological responses in European seabass (*Dicentrarchus labrax*) fed *Gracilaria* sp. extract supplementation following pathogen infection.

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3. Peixoto M.J, Magnoni L.J., Twijnstra R.H., Kijjoa A., Pereira R., Abreu H., Palstra A.P., **Ozório, R.O.A.** 2017. Effects of dietary inclusion of red seaweed (*Gracilaria* sp.) fractions on growth performance, fillet quality, oxidative stress and immune responses in European seabass (*Dicentrarchus labrax*). Animal Feed Science and Technology (ANIFEE_2017_228, submitted 01/03/2017; ANIMAL-S-17-01069, submitted 10-10-2017)
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43. **Ozorio R.O.A.** Van Ginneken V.J.T., Bessa R.J.B., Versteegen M.W.A., Verreth J.A.J., Huisman E.A. 2010. Effects of exercise on L-carnitine and lipid metabolism in African catfish (*Clarias gariepinus*) fed different dietary L-carnitine and lipid levels. British Journal of Nutrition 103: 1139–1150 (DOI 10.1017/S0007114509993035). IF: 3.311
44. Nogueira N., Cordeiro N., Canada P., Cruz e Silva P. and **Ozório R.O.A.** 2010. Separate and combined effects of cyclic fasting and L-carnitine supplementation in red porgy (*Pagrus pagrus*, L. 1758). Aquaculture Research 41: e795-e806 (DOI: 10.1111/j.1365-2109.2010.02596.x). IF: 1.606
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50. Martins D.A., Gomes E., Rema P., Dias J., **Ozório R.O.A.** and Valente L.M.P. 2006. Partial substitution of fish oil by soybean oil in diets for rainbow trout (*Oncorhynchus mykiss*) and European sea bass (*Dicentrarchus labrax*) juveniles. Effects on growth performance, nutrient utilisation and body composition. Aquaculture International 14: 285-295. (DOI: 10.1007/s10499-005-9034-x). IF: 0.960
51. * **Ozório R.O.A.**, Valente L.M.P, Pousao-Ferreira P. and Oliva-Teles A. 2006. Growth performance and body composition of white seabream (*Diplodus sargus*) juveniles fed diets with different protein and lipid levels. Aquaculture Research 37: 255-263. (DOI: 10.1111/j.1365-2109.2005.01427.x). IF: 1.606
52. **Ozório R.**, Van Ginneken V., Van den Thillart G., Verstegen M. and Verreth J. 2005. Dietary carnitine maintains energy reserves and delays fatigue of exercised African catfish fed high fat diets. Scientia Agricola 62: 208-213. (DOI: 10.1590/S0103-90162005000300002). IF: 0.953
53. **Ozório R.O.A.**, Verreth J.A.J., Aragão C.R., Vermeulen C.J., Schrama J.W. and Verstegen M.W.A. 2003. Dietary carnitine supplements increased lipid metabolism and decreased protein oxidation in African catfish (*Clarias gariepinus*) juveniles fed high fat levels. Journal of Aquaculture in the Tropics 18: 225-238.
54. **Ozório R.O.A.**, Booms G.H.R., Huisman E.A. and Verreth J.A.J. 2002. Changes in amino acid composition in the tissues of African catfish (*Clarias gariepinus*) as a consequence of dietary L-carnitine supplements. Journal of Applied Ichthyology 18: 140-147. (DOI: 10.1046/j.1439-0426.2002.00317.x). IF: 0.783
55. **Ozório R.O.A.**, Uktoseja J.L.A., Huisman E. A. and Verreth J. A. J. 2001. Changes in fatty acid concentrations in tissues of African catfish, *Clarias gariepinus* Burchell, as a consequence of dietary carnitine, fat and lysine supplementation. British Journal of Nutrition 86: 623-636. (DOI: 10.1079/BJN2001447). IF: 3.311
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Most representative publications (5)

(Papers are marked with * in item 10.1.3.2)

1. Peixoto M.J., Salas-Leitón E., 4. Silva-Brito F., Pereira L.F., Svendsen J.C., Baptista T., Pereira R., Abreu H., Reis P.A., Gonçalves J.F.M. and **Ozório R.O.A.** 2016. Effects of dietary Gracilaria sp. and Alaria sp. supplementation on growth performance, metabolic rates and health in meagre (*Argyrosomus regius*) subjected to pathogen infection. *Journal of Applied Phycology* (In press; DOI: 10.1007/s10811-016-0917-1). IF: 2.559.

Description of R. Ozório contribution: paper from SEABIOPLAS project (see page 5, line 7). R. Ozório was the scientific coordinator of the SEABIOPLAS. R. Ozório designed the experimental trial and coordinated all lab work. R. P Ozório participated in the writing and he is the corresponding author.

2. Batista S., Medina, A., Pires M. A., Moriñigo M. A., Sansuwan K., Fernandes J.M.O., Valente L.M.P. and **Ozório R.O.A.** 2016. Innate immune response, intestinal morphology and microbiota changes in Senegalese sole fed plant protein diets with probiotics or autolyzed yeast. *Applied Microbiology and Biotechnology* (Early view; DOI 10.1007/s00253-016-7592-7). IF: 3.337

Description of R. Ozório contribution: paper from PROBIO-SOLEA project (see page 5, line 22). R. Ozório was the scientific coordinator of the PROBIO-SOLEA. R. Ozório designed the experimental trial, selected the intestinal bacterial for the probiotic testing and coordinated all lab work. R. Ozório participated in the writing and he is the corresponding author.

3. **Ozório R.O.A.**, Valente L.M.P, Pousao-Ferreira P. and Oliva-Teles A. 2006. Growth performance and body composition of white seabream (*Diplodus sargus*) juveniles fed diets with different protein and lipid levels. *Aquaculture Research* 37: 255-263. (DOI: 10.1111/j.1365-2109.2005.01427.x). IF: 1.606

Description of R. Ozório contribution: paper from PROBIO-SOLEA project (see page 5, line 25). R. Ozório designed the experimental trial and executed all analytical work. R. Ozório had major role in the writing of the manuscript and R. Ozório is the corresponding author.

4. **Ozório R.O.A.**, Turini B.G.S., Moro G., Oliveira L.S.T., Portz L. and Cyrino J.E.P. 2010. Growth, nitrogen gain and indispensable amino acid retention of pacu

(*Piaractus mesopotamicus*, Holmberg 1887) fed different brewers yeast (*Saccharomyces cerevisiae*) levels. *Aquaculture Nutrition* 16: 276-283 (DOI: 10.1111/j.1365-2095.2009.00662.x). IF: 1.511

Description of R. Ozório contribution: paper from YEAST-TILAPIA project (see page 6, line 12). R. Ozório was the scientific coordinator of the YEAST-TILAPIA. R. Ozório designed the experimental trial, formulated the experimental diets and coordinated all analytical work. R. Ozório had major role in the writing of the manuscript and R. Ozório is the corresponding author.

5. **Ozório R.O.A.** Van Ginneken V.J.T., Bessa R.J.B., Versteegen M.W.A., Verreth J.A.J., Huisman E.A. 2010. Effects of exercise on L-carnitine and lipid metabolism in African catfish (*Clarias gariepinus*) fed different dietary L-carnitine and lipid levels. *British Journal of Nutrition* 103: 1139–1150 (DOI 10.1017/S0007114509993035). IF: 3.453

Description of R. Ozório contribution: R. Ozório designed and executed the fish trial. In addition, he carried out part of the analytical work, and coordinated the execution of the other part of the lab work. R. Ozório is the main author of the scientific publication and R. Ozório is the corresponding author.

9.1.3.4. Books

1. **Ozório R.O.A.** 2001. Dietary L-carnitine and energy and lipid metabolism in African catfish (*Clarias gariepinus*) juveniles. 1 vols, p. 136. Wageningen: Ponsen and Looijen. (ISBN 90-5808-493-0). PhD Thesis.

9.1.3.5. Book Chapters

1. Moraes J.R.E., Iwashita M.K.P., **Ozório R.O.A.**, Rema P. , Moraes F.R. 2009. Influence of vitamin E supplementation on dermal wound healing in Tilapia, *Oreochromis niloticus*. In: *Freshwater Ecosystems and Aquaculture Research* (De Carlo, F and Bassano A, eds). Nova Science Publishers (ISBN: 978-1-60741-707-1)
2. **Ozório R.O.A.** 2003. Estado da arte da piscicultura brasileira e mundial. In *Tópicos Especiais em Piscicultura Tropical Intensiva* (Castagnolli N, Cyrino, JEP, Carrã M). São Paulo, TecArt, 533pp (ISBN 8590468917).
3. Conceição L.E.C, **Ozório R.O.A.** Suurd E. A. and Verreth J. A. J. 1997. Amino acid profiles and amino acid utilisation in larval African catfish (*Clarias gariepinus*): effects of ontogeny and temperature. In *Growth in early life stages*

of fishes: an explanatory model, edited by Huisman, E.A., M.W.A. Verstegen, D.F. Houlihan, and J.A.J. Verreth. Vol. 1, 119-144. Wageningen: Ponsen and Looijen.

9.1.3.6. Technical papers

1. **Ozório R.O.A.**, Cyrino, J.E.P., Turini, B.G.S., Moro, G., Oliveira, L.S.T. and Nascimento, A. 2005. Feeding dried yeast to Pacu (*Piaractus mesopotamicus*) as dietary fish meal replacement. *World Aquaculture* 36: 30-36.
2. **Ozorio R.O.A.** 2001. Young fish can reach maturity using cheaper food with a supplement added. In WISP'R, 4-4. Holanda.
3. **Ozorio R.O.A.** 2001. L-Carnitine werkt niet bij volwassenen. In *Ergogenics*, Holanda (em holandês).
4. **Ozório R.O.A.** and Leenstra S. 1997. De status van Aquacultuur in Brazilië. In *Aquacultuur* 2: 5-8. The Netherlands. (in Dutch).

9.1.3.7. Patents

2015 - Declaration of Invention (University of Porto): Ozório, R, Souza, AT, Fernandes, M, Gonçalves, JFM. 2015. MODELFISH – Smart Autonomous system of fish feeding for aquaculture user-friendly. Reference UPIN: NPAT 247'2015

2016 – MODELFISH - Smart Autonomous system of fish feeding for aquaculture user-friendly (PPP476.4, submitted April 2017)

9.2. Supervision

9.2.1. PhD theses (8)

1. 2016 à 2020 – **Renato Ferraz**. Efeito da dieta na modelação adipogênica do tambaqui (*Colossoma macropomum*): contribuição para a sua produção em aquacultura. Doutoramento em Ciência Animal, Universidade do Porto (Portugal). Supervisors: Prof. Dr. Filipe Castro (CIIMAR-UP; ICBAS-UP); Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP); Prof. Dr. Ana L. Salero (Universidade Federal de Viçosa, Brasil). Financiamento: Ciências sem Fronteiras (CNPq), Brasil. (€ 60,000)

2. 2014 à 2017 – **Maria João Peixoto**. Marine bioactives as functional aquafeed ingredients: Modulation of nutrient metabolism and stress responsiveness in aquaculture species. Doutoramento em Ciência Animal, Universidade do Porto (Portugal). Supervisors: Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP); Prof. Dr. José F. M. Gonçalves (ICBAS-UP, CIIMAR); Dr. Rui Pereira (Algaplus Ltda.). financiamento: Project: SEABIOPLAS, FP7 - SME-2012 (€1,929,269.00), proposal no. 31572531-03-05-FEP-0041.
3. 2013 à 2017 - **Augusto Queiroz**. Seleção e bioprospecção de macroalgas e seus extratos para o uso em dietas de dourada (*Sparus aurata*): Efeitos no desempenho, microbiota intestinal e expressão de genes regulatórios do sistema imune. Doutoramento em Ciência Animal, Universidade do Porto (Portugal). Supervisors: Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP); Prof. Dr. José F. M. Gonçalves (ICBAS-UP, CIIMAR); Dra. Helena Abreu (Algaplus Ltda.). Financiamento: Project: ALGADOURADA (PROMAR - Eixo III - Projecto Piloto, referência: 31-03-05-FEP-0041). (€ 70.000)
4. 2012 à 2016 - **Sonia Batista**. Utilização de probióticos na dieta do linguado (*Solea senegalensis*): Efeitos no desempenho nutricional, fisiologia e ecologia do trato digestivo, parâmetros imunológicos e base molecular do seu efeito protector. Supervisors: Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP), Prof. Dra. Luisa Valente (ICBAS-UP, CIIMAR); Jorge Fernandes (Nordland Univ., Noruega). Financiamento: FCT (SFRH/BD/76668/2011); project PROBIOSOLEA – Selection and evaluation of probiotic strains for use in sole (*Solea senegalensis*) aquaculture. Quadro de Referência Estratégico Nacional (QREN), SI I&DT – co-promoção, candidaturas n.º 35/SI/2009. (€ 550.000).
5. 2010 à 2016 - **Amélia Ramos**. Estudo da aplicação de probióticos comerciais em aquacultura. Sua utilização no cultivo de espécies com interesse comercial. Supervisors: Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP) e Prof. Dr. Paulo Rema (UTAD, Portugal). Financiamento: FCT (SFRH/PROTEC/67567/2010).
6. 2010 à 2014 - **Silvia Napoleão**. Descrição da fauna parasitária de diferentes raias marinhas (Elasmobranchii) provenientes da pesca comercial no litoral sudeste e sul do Brasil. Doutorado em Medicina Veterinária (Conceito CAPES 6). Universidade Estadual Paulista Júlio de Mesquita Filho (UNESP, Brasil). Supervisor: Ricardo Takemoto, co-supervisor: Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP).
7. 2011 à 2014 - **Sthelio Braga**. Efeitos da adição de ácidos graxos poliinsaturados e selênio orgânico e inorgânico sobre o desempenho e estresse oxidativo em tilápias nilóticas (*O. niloticus*) e corvina (*Argyrosomus regius*). Supervisors: Prof. Dr. José H. Vilar (UFPB); Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP); Prof. Dr. Leonardo Pascoal (UFPB)

8. 2004 à 2008 - **Ricardo do Amaral Ribeiro**. Utilização de efluentes industriais (farinha de sangue e soro de leite) na elaboração de ração para pirarucu (*Arapaima gigas*, Curvier). Doutorado em Biotecnologia, Universidade Federal do Amazonas em cooperação CIIMAR (Portugal), INPA (Brasil) e Univ. Do Acre (Brasil). Supervisors: Prof. Dr. Manuel Pereira (INPA, Brasil) e Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP).

9.2.2. MSc theses (15)

1. 2015-2017 – **Lia Valido Ferreira**. GABAergic system and oxidative stress responses to hypercapnia in the Pacific oyster *Crassostrea gigas*, (Thunberg, 1793). Mestrado Ciências do Meio Aquático, ICBAS-UP/CIIMAR. Supervisors: Prof. Dr. Jorge Machado (ICBAS-UP, CIIMAR), Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP). Financiamento: Project “INSEAFOD – Innovation and valorization of seafood products: meeting local challenges and opportunities”. Entidade Financiadora: NORTE 2020 através do programa FEDER
2. 2015 à 2016 – **Gaspar S. M. Lobo**. Effect of dietary seaweed supplementation on European Seabass (*Dicentrarchus labrax*) subjected to rearing temperature and salinity oscillations. Mestrado Ciências do Meio Aquático, ICBAS-UP/CIIMAR. Supervisors: Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP), Prof. Dr. José F. M. Gonçalves (ICBAS-UP, CIIMAR). Financiamento: Project MODEL FISH – Modelo Predictivo de Ingestão Alimentar como Ferramenta de Controlo Ambiental em Produção Aquática”. Entidade Financiadora: PROMAR - Eixo III, reference (31-03-01-FEP-0152). (€ 120,000).
3. 2013 à 2014 – **Francisca Brito**. Metabolic regulation in meagre (*Argyrosomus regius*) via diet-gene interactions: expression of genes involved in lipid metabolism and immune response. Mestrado Ciências do Meio Aquático, ICBAS-UP/CIIMAR. Supervisors: Prof. Dr. José F. M. Gonçalves (ICBAS-UP, CIIMAR); Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP)
4. 2012 à 2014 - **Kanokwan Sansuwan**. Structural modification of feedstuffs using microwave processing for feed development in culturing sex reversed Nile tilapia (*Oreochromis niloticus*). Master in Zoology - Faculty of Science, Kasetsart University, Thailand. Supervisors: Prof. Dr. Uthaiwan Kovitvadhi, Prof. Dr. Satit Kovitvadhi, Dr. Karun Thongprajukeaw, Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP).
5. 2012 à 2014 – **Luis Filipe Pereira**. Growth, antioxidant and immune responses in European seabass (*Dicentrarchus labrax*) fed dietary probiotic supplementation under different rearing temperatures. Mestrado Ciências do Meio Aquático, ICBAS-UP/CIIMAR. Supervisors: Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP);

Prof. Dr. José F. M. Gonçalves (ICBAS-UP, CIIMAR).

6. 2011 à 2013 - **Andreia Domingues**. Efeitos da suplementação dietética de probióticos na resposta imune do linguado (*Solea senegalensis*). Supervisores: Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP) e MSc Sonia Batista (CIIMAR, ICBAS-UP).
7. 2011 à 2012 - **Fernando Magalhães**. Estudo da Aplicação de Probióticos na Larvicultura de Peixes Marinhos com Interesse Comercial. Supervisor: Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP) e Prof. Dr. Antonio Paulo Carvalho (FCUP).
8. 2010 à 2011 - **Jorge Araujo**. Descrição do valor nutricional e caracterização da ecologia da lampreia do rio Minho. Supervisor: Prof. Dr. Carlos Antunes (CIIMAR) e Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP).
9. 2010 à 2012 - **Hurzana Mello**. Desempenho produtivo, hematologia e inflamação crónica em tilápias do Nilo (*Oreochromis niloticus* Linn.) alimentadas com ração suplementada com probiótico. Supervisor: Prof. Dra. Julieta Moraes e Dr. Rodrigo Ozório
10. 2008 à 2009 - **Cláudia Escorcio**. Comparative performance of growth, carcass and biochemical composition in diploid and triploid rainbow trout (*Oncorhynchus mykiss*) fed different L-carnitine levels. Supervisor: Prof. Dr. José F. M. Gonçalves e Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP).
11. 2007 à 2008 - **Bruno Turini**. Protective effects of dietary L-carnitine on turbot reared under different stocking densities. Dissertação (Mestrado em Ciências do Meio Aquático), ICBAS, Universidade do Porto – Porto, Portugal. Supervisor: Prof. Dr. Rodrigo Ozório (CIIMAR, ICBAS-UP) e Prof. Dr. José F. M. Gonçalves.
12. 1999 à 2000 - **Vincent Van Den Briel**. The effect of dietary L-Carnitine supplements in the energy and lipid metabolism of African catfish, *Clarias gariepinus*, fed marginally deficient lysine diets, during a bout of aerobic exercise. Dissertação (Mestrado em Fish Culture And Fisheries), Agricultural University - Wageningen, Ministerio da Agricultura. Supervisor: Dr. Rodrigo Ozório.
13. 1998 à 1999 - **Jacob Uktolseja**. Effect of dietary carnitine on growth performance in *Clarias gariepinus* juveniles at two levels of dietary lysine. Dissertação (Mestrado em Fish Culture And Fisheries), Agricultural University – Wageningen. Supervisor: Dr. Rodrigo Ozório.
14. 1997 à 1998 - **Cees Jan Vermeulen**. 1998. The effect of dietary L-carnitine on the nitrogen excretion of juveniles of the African catfish receiving different ratio's of protein/fat energy. Dissertação (Mestrado em Nutrição de Peixes),

Wageningen Agricultural University. Supervisor: Dr. Rodrigo Ozório.

15. 1996 à 1997 - **Tim Van Eekeren**. The effect of dietary L-carnitine supplementation and PE/NPE ratios on growth of the African catfish (*Clarias gariepinus*). Dissertação (Mestrado em Fish Culture And Fisheries), Agricultural University - Wageningen, Ministerio da Agricultura. Supervisor: Dr. Rodrigo Ozório .

9.2.3. Practical Training

1. 2005 à 2006. **Carla Puga**. Potencial de substituição de óleo de peixe pela lecitina de soja na dieta de juvenis de dourada (*Sparus aurata*). (Supervisor: Dr. Rodrigo Ozório).
2. 2004 à 2005. **Ana Rita Ribeiro**. Efeito de diferentes níveis de proteínas e lipídios no crescimento total e composição corporal do sargo (*Diplodus sargus*). CIMAR-Lab. Associado, Porto. (Supervisor: Dr. Rodrigo Ozório).
3. 2002 à 2003. **Bruno Graziano da Silva Turini**. O efeito de polissacarídeos não amiláceos na dieta de peixes tropicais. Universidade de São Paulo, Conselho Nacional de Desenvolvimento Científico e Tecnológico. (Supervisor: Dr. Rodrigo Ozório).
4. 2002 à 2003. **Leandro Silva Torres de Oliveira**. O efeito de polissacarídeos não amiláceos na dieta de peixes tropicais. Universidade de São Paulo, Conselho Nacional de Desenvolvimento Científico e Tecnológico. (Supervisor: Dr. Rodrigo Ozório).
5. 1998 à 1999. **Peter Horvath**. The effect of dietary L-carnitine supplements on amino acid composition of carcass and tissues in the African catfish juveniles fed two different lysine levels. Wageningen Agricultural University – Wageningen. (Supervisor: Dr. Rodrigo Ozório).
6. 1997 à 1998. **Claudia Aragão**. The effect of L-carnitine on body composition and growth in juveniles of African catfish. A special attention on liver, muscle and plasma composition. Wageningen Agricultural University - Wageningen. (Supervisor: Dr. Rodrigo Ozório).

10. Examiner of MSc and PhD theses

10.1. MSc Theses

1. Inês G. Campos. 2013. Thesis entitled "Evaluating the effects of dietary nitrate supplementation on growth, oxygen consumption and reproductive performance of zebrafish (*Dania reria*)". University of Porto.
2. Rui P. M. Magalhães. 2013. Thesis entitled "Dried Distillers Grains with Solubles (DDGS): a potencial protein source in feeds for aquaculture". University of Porto.
3. Cláudia F. D. A. Moreira. 2012. Thesis entitled "Comparing the response of the brown shrimp, *Crangon crangon*, to prolonged deprivation of food in two seasons". University of Porto.
4. Ângela S. F. Palmas. 2012. Thesis entitled "Substituição de fontes lipídicas em alimentos compostos para linguados juvenis". University of Porto.
5. Joana M. S. Gomes. 2012. Thesis entitled "Utilização de fontes proteicas em dietas para linguado do senegal (*Solea senegalensis*)". University of Porto.
6. Rafael Béccheri Cortez. 2002. Biologia e Conservação de Peixes Migradores do Sistema Hidroelétrico da Bacia do Rio Paranapanema, Duke Energy International. Monografia (Aperfeiçoamento/Especialização em Engenharia Agrônômica). São Paulo University.
7. Jony Koji Dairiki. 2002. Biologia e Conservação de Peixes Migradores do Sistema Hidroelétrico da bacia do Rio Parapanema, Duke Energy International. Monografia (Aperfeiçoamento/Especialização em Engenharia Agrônômica) , Universidade de São Paulo.
8. Peter Horvath. 1999. The effect of dietary L-carnitine supplements on amino acid composition of carcass and tissues in the African catfish (*Clarias gariepinus*) juveniles fed two different lysine levels. Monografia (Aperfeiçoamento/Especialização em Nutrient Dynamics In Fish) , Wageningen Agricultural University.
9. Claudia Aragão. 1998. Effect of l-carnitine on body composition and growth in juveniles of African catfish (*Clarias gariepinus*, Burchell 1822): Special attention to liver, muscle and plasma composition. Monografia (Aperfeiçoamento/Especialização em Nutrient Dynamics In Fish) , Wageningen Agricultural University.

PhD Theses

1. Patricia T. Martins. 2016. Caracterização molecular de populações microbianas na aquacultura. Aveiro University.