

Curriculum Vitae

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Pedro Miguel Leal Rodrigues

January 2019

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PEDRO MIGUEL LEAL RODRIGUES, PhD.



November 2018

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Personal data

Name: Pedro Miguel Leal Rodrigues

First Name: Pedro

Middle Name: Miguel

Surname: Leal Rodrigues

Date and place of birth: 03-12-1968, Lisbon, Portugal

Nationality: Portuguese

Marital status: Single

Mothers Name: Ilda Conceição Leal Rodrigues

Fathers Name: António Miguel Oliveira Rodrigues

Passport nº: M810125

Issue date: 19.09.2013

Expire date: 19.09.2018

Current job: Assistant Professor

Date of assignment: January 2000

Institutional address: Universidade do Algarve, CCMar, FCT, Edifício 7, Campus de Gambelas, 8005-139 Faro, Portugal.

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Academic degrees, courses awarding institutions, dates in reverse chronological order

2016-2017: Basis course on “Laboratory animals manipulation” by FELASA B category (theoretical and practical course). Certificate by DGAV to execute “laboratory animal manipulation” and “conception of proceedings and projects”.

1999: PhD in Chemistry, Inorganic Chemistry – October 1999 FCT/UNL, Portugal. “Structural studies in Ferredoxins by Nuclear Magnetic Resonance”.

1991: Degree in Applied Chemistry, Organic Chemistry – 1986-1991 FCT/UNL, Portugal.

Positions, institution, starting date, in reverse chronological order

January 2000 – Present: Assistant Professor – FCT/ University of Algarve.

September 2010 – Present: Head of the Proteomics Division of the Aquaculture Research Group at CCMAR, University of Algarve.

Teaching subject – General Chemistry, Organic chemistry, Protein Chemistry, Proteomics in Clinical Systems.

January 1996 – October 1999: PhD scholarship from Fundação para a Ciência e Tecnologia, Portugal.

January 1995 – December 1995: Laboratory Technician at Chemistry Department, FCT/New University of Lisbon.

October 1993 – December 1994: Product Manager for coats, additives and paint polymers at Hoechst Chemicals, Lisbon, Portugal.

Administrative experience

Faculty Chemical residues coordinator. 2006 - 2008

Member of Faculty Directive Board. 2006 - 2008

Vice-President of Biological Science Department. 2008-2009.

Portuguese representative and member of management committee for COST action FA 1002 on Farmed Animal Proteomics. 2010-2014.

Directive Board for the Masters Degree in Environmental Engineering. 2013 -

Directive Board for the Masters Degree in Aquaculture and Fisheries. 2014 - ...

Directive Board for the Degree in Biomedical Sciences. 2015 - ...

Portuguese representative and member of management committee for COST action FA 1402 on Improving Allergy Risk Assessment Strategy for new food proteins (ImpARAS) . 2014-2018.

Languages

| Language | Proficiency | | | | | | | | |
|------------|-------------|------|------|---------|------|-------|----------|------|------|
| | Reading | | | Writing | | | Speaking | | |
| | Begin. | Med. | Adv. | Begin | Med. | Adv.. | Begin. | Med. | Adv. |
| Portuguese | | | X | | | X | | | X |
| English | | | X | | | X | | | X |
| Italian | | | X | | X | | | | X |
| French | | X | | | X | | | X | |
| Spanish | | | X | | X | | | X | |

Computer skills

| Skill / Program | None | Beginner | Intermediate | Excellent |
|-----------------|------|----------|--------------|-----------|
| Word | | | | X |
| Excel | | | | X |
| Power Point | | | | X |
| Access | | | X | |
| Internet | | | | X |
| Web Design | | X | | |

Scientific Organizations Membership

CCMAR – Centro de Ciências do Mar do Algarve

SPB – Portuguese Biochemistry Society

Procura – Portuguese Proteomics Network

HUPO –Human Proteome Organization

Experience Abroad

Bratislava, Czechoslovakia. IAESTE scholarship. **Analytical oil analysis.** Slovnaft oil company. July – September 1990.

Florence, Italy. Erasmus scholarship. **Polycyclic organic synthesis.** Università degli Studi di Firenze. October 1990 – August 1991.

Rochester, Mn, USA. PhD scholarship. **Ferredoxin cloning and overexpression.** Mayo Clinic. April – August 1997.

Braunschweig, Germany. PhD scholarship. **Ferredoxin NMR structural studies.** Helmholtz Center for Infection Research. July 1998.

San Diego, USA. **Bone protein purification and characterization.** University of California, San Diego – UCSD. February 2000.

Copenhagen, Denmark. **LC-MS/MS protein Identification.** DTU Biosustain. Technical University of Denmark. August 2014.

Cape Town, Republic of South Africa. **MALDI-TOF/TOF and MALDI-IMAGING protein identification and analysis.** University of the Western Cape. October 2014 – January 2015.

Nakhon Ratchasima, Thailand. **Workshop lecturer on Proteomics in Aquaculture.** Suranaree University of Technology. October 2016.

Prizes

Cerantonia Prize for best project 2007 in Sea Sciences, University of Algarve, Caixa Geral dos Depósitos. April 2007 - April 2008

Current research interest

As a member of the Aquaculture research group of CCMar the main key words related to the current research are: Protein purification and characterization. Skeletal deformities. Proteomics. Proteomic characterization of fish welfare and quality. Fish Allergen modulation and characterization. Biomarkers.

Relevant Publications (Reverse chronological order)

Articles in International refereed journals listed in SCI (Reverse chronological order)

Schrama D, Cerqueira M, Raposo CS, Rosa da Costa AM, Wulff T, Gonçalves A, Camacho C, Colen R, Fonseca F and Rodrigues PM (2018) **Dietary Creatine Supplementation in Gilthead Seabream (*Sparus aurata*): Comparative Proteomics Analysis on Fish Allergens, Muscle Quality, and Liver.** *Front. Physiol.* 9:1844. doi: 10.3389/fphys.2018.01844

Raposo de Magalhães, C. S., Cerqueira, M. A., Schrama, D. , Moreira, M. J., Boonanuntanasarn, S. and Rodrigues, P. M. (2019), **A Proteomics and other Omics approach in the context of**

farmed fish welfare and biomarker discovery. Rev Aquacult. Doi:[10.1111/raq.12308](https://doi.org/10.1111/raq.12308)

Surintorn Boonanuntanasarn, Chatsirin Nakharuthai, Denise Schrama, Rungsun Duangkaew, Pedro M. Rodrigues (2019). **Effects of dietary lipid sources on hepatic nutritive contents, fatty acid composition and proteome of Nile tilapia (*Oreochromis niloticus*).** Journal of Proteomics. DOI: [10.1016/j.jprot.2018.09.003](https://doi.org/10.1016/j.jprot.2018.09.003)

Gabriel Mazzucchelli, Thomas Holzhauser, T. Cirkovic-Velickovic, Araceli Diaz-Perales, Elena Molina, Paola Roncada, Pedro Rodrigues, Kitty Verhoeckx and K. Hoffmann-Sommergruber (2018) **Current (food) allergenic risk assessment: Is it fit for novel foods? Status Quo and identification of gaps.** *Molecular Nutrition & Food Research.* 62 (1). DOI: 10.1002/mnfr.201700278

Pedro M L Rodrigues, Denise Schrama and Cláudia Raposo. (2017) **Modulation of fish allergenicity towards the production of a low allergen farmed fish; a proteomics approach.** *Journal of proteomics and Bioinformatics*, 10 (5): 42 (Suppl). Doi: 10.4172/0974-276X-C1-098

J. A. Macedo, D. Schrama, I. Duarte, E. Tavares, J. Renaut, M. E. Futschik, P. M. Rodrigues, E. P. Melo. (2017) **Membrane-enriched proteome changes and prion protein expression during neural differentiation and in neuroblastoma cells.** BMC Genomics. 18 (1): 319 DOI:10.1186/s12864-017-3694-6

Márcio Moreira, Denise Schrama, Florbela Soares, Tune Wulff, Pedro Pousão-Ferreira, Pedro Rodrigues. (2017). **Physiological responses of reared sea bream (*Sparus aurata* Linnaeus, 1758) to an *Amyloodinium ocellatum* outbreak.** *Journal of Fish Diseases.* 40 (11): 1545-1560. DOI: 10.1111/jfd.12623

Denise Schrama, Nadège Richard, Tomé S. Silva, Filipe A. Figueiredo, Luís E.C. Conceição, Richard Burchmore, David Eckersall, Pedro M.L. Rodrigues. (2017). **Enhanced dietary formulation to mitigate winter thermal stress in gilthead seabream (*Sparus Aurata*) a 2D-DIGE plasma proteome study.** *Fish physiology and Biochemistry.* 43 (2): 603-617. Doi 10.1007/s10695-016-0315-2.

Nadège Richard, Tomé S. Silva, Tune Wulff, Denise Schrama, Jorge P. Dias, Pedro M.L. Rodrigues, Luis E.C. Conceição. (2016). **Nutritional mitigation of winter thermal stress in gilthead seabream: Associated metabolic pathways and potential indicators of nutritional state.** *Journal of Proteomics.* 142: 1-14. Doi: 10.1016/j.jprot.2016.04.037

Anna Marco-Ramell, André M. de Almeida, Susana Cristóbal, Pedro Rodrigues, Paola Roncada and Anna Bassols. (2016). **Proteomics and the search for welfare and stress biomarkers in animal production in the one-health context.** *Molecular Biosystems.* 12(7):2024-35. Doi: 10.1039/C5MB00788G

Cristian Piras, Paola Roncada, Pedro M. Rodrigues, Luigi Bonizzi, Alessio Soggiu. (2016). **Proteomics in food: quality, safety, microbes and allergens.** *Proteomics.* 16 (5): 799-815. doi: 10.1002/pmic.201500369

AM Almeida; A Bassols; E Bendixen; M Bhide; F Ceciliani; S Cristobal; PD Eckersall; K Hollung; F Lisacek; G Mazzucchelli; M McLaughlin; I Miller; JE Nally; J Plowman; J Renaut; P Rodrigues; P Roncada; J. Staric; R Turk. (2015). **Advances in proteomics for animal and food sciences and the activity of the COST action on farm animal proteomics.** *Animal*. 9 (1): 1-17 (doi: 10.1017/S1751731114002602)

Tomé S. Silva; Ana M.R. da Costa; Luís E.C. Conceição; Jorge P. Dias; Pedro M.L. Rodrigues; Nadège Richard. (2014). **Metabolic profiling of Gilthead Seabream (*Sparus aurata*) liver to track interactions between dietary factors and seasonal temperature variations.** *PeerJ (open access)*. [10.7717/peerj.527](https://doi.org/10.7717/peerj.527)

Silva T.S.; Richard N.; Dias J.P.; Rodrigues P.M. (2014). **Data visualization and featured selection methods in gel-based proteomics.** *Curr Protein Pept Sci*, 15 (1), 4-22. (doi: 10.2174/1389203715666140221112334)

Matos, Elisabete; Silva, Tomé S.; Wulff, Tune; Valente, Luisa M.P.; Sousa, Vera; Sampaio, Eduardo; Gonçalves, Amparo; Silva, Joana M.G.; Dinis, Maria Teresa; Rodrigues, Pedro M.; Dias, Jorge (2013). **Influence of supplemental maslinic acid (olive-derived triterpene) on the post-mortem muscle properties and quality traits of gilthead seabream.** *Aquaculture*, **396-399**, 146-155. (doi: 10.1016/j.aquaculture.2013.02.044)

Rodrigues, Pedro M.; Richard, Nadège; de Vareilles, Mahaut; Silva, Tomé S.; Conceição, Luís E.C. (2012). **Proteomics as a tool to develop molecular indicators of nutritional condition in farmed gilthead seabream.** *Journal of Proteomics & Bioinformatics*, 5 (6), 97. (DOI: 10.4172/0974-276X.S1.064)

Silva, Tomé S.; Matos, Elisabete; Cordeiro, Odete D.; Colen, Rita; Wulff, Tune; Sampaio, Eduardo; Sousa, Vera; Valente, Luisa M. P.; Gonçalves, Amparo; Silva, Joana M. G.; Bandarra, Narcisa; Nunes, Maria Leonor; Dinis, Maria Teresa; Dias, Jorge; Jessen, Flemming; Rodrigues, Pedro M. (2012). **Dietary Tools To Modulate Glycogen Storage in Gilthead Seabream Muscle: Glycerol Supplementation.** *Journal of Agricultural and Food Chemistry*, **60** (42), 10613-10624. (Doi: 10.1021/jf3023244)

Morais, Sofia; Silva, Tomé; Cordeiro, Odete; Rodrigues, Pedro M.; Guy, Derrick R; Bron, James E; Taggart, John B; Bell, J Gordon; Tocher, Douglas R. (2012). **Effects of genotype and dietary fish oil replacement with vegetable oil on the intestinal transcriptome and proteome of Atlantic salmon (*Salmo salar*).** *BMC Genomics*, 13 (1), 448-448.

Silva, Tomé S.; Cordeiro, Odete D.; Matos, Elisabete D.; Wulff, Tune; Dias, Jorge P.; Jessen, Flemming; Rodrigues, Pedro M. (2012). **Effects of Preslaughter Stress Levels on the Post-mortem Sarcoplasmic Proteomic Profile of Gilthead Seabream Muscle.** *Journal of Agricultural and Food Chemistry*, **60** (37), 9443-9453.

Vareilles, Mahaut; Conceição, Luis E. C.; Gómez-Requeni, Pedro; Kousoulaki, Katerina; Richard,

Nadège; Rodrigues, Pedro M.; Fladmark, Kari E.; Rønnestad, Ivar. (2012). **Dietary Lysine Imbalance Affects Muscle Proteome in Zebrafish (*Danio rerio*): A Comparative 2DDIGE Study.** *Marine Biotechnology*, **14** (5), 643-654. (Doi: 10.1007/s10126-012-9462-3)

Rodrigues, Pedro M.; Silva, Tomé S.; Dias, Jorge; Jessen, Flemming. (2012). **PROTEOMICS in aquaculture: Applications and trends.** *Journal of Proteomics*, **75** (14), 4325-4345.

de Vareilles, M.; Richard, N.; Gavaia, P. J.; Silva, T. S.; Cordeiro, O.; Guerreiro, I.; Yúfera, M.; Batista, I.; Pires, C.; Pousão-Ferreira, P.; Rodrigues, P. M.; Rønnestad, I.; Fladmark, K. E.; Conceição, L. E.C. (2012). **Impact of dietary protein hydrolysates on skeleton quality and proteome in *Diplodus sargus* larvae.** *Journal of Applied Ichthyology*, **28** (3), 477-487. (doi.org/10.1111/j.1439-0426.2012.01986.x)

Cordeiro, Odete D.; Silva, Tomé S.; Alves, Ricardo N.; Costas, Benjamin; Wulff, Tune; Richard, Nadège; Vareilles, Mahaut; Conceição, Luís E. C.; Rodrigues, Pedro M. (2012). **Changes in Liver Proteome Expression of Senegalese Sole (*Solea senegalensis*) in Response to Repeated Handling Stress.** *Marine Biotechnology*, **14** (6), 714-729.

Tomé S. Silva, Odete Cordeiro, Nadège Richard, Luis E.C. Conceição, Pedro M. Rodrigues (2011) **Changes in the soluble bone proteome of reared white sea bream (*Diplodus sargus*) with skeletal deformities.** *Comparative Biochemistry and Physiology, Special Issue Part D: Genomics and Proteomics*, **6D** (1): 82-91.

Tomé S Silva, Odete Cordeiro, Flemming Jessen, Jorge Dias, Pedro M Rodrigues (2010). **On the reproducibility of a fractionation procedure for fish muscle proteomics.** *American Biotechnology laboratory. Proteomics special issue May/June 2010*, 8-13. (url: <https://www.scopus.com/record/display.uri?eid=2-s2.0-78650074005&origin=inward&txGid=DD818C3D5FCFF6178A9A5DC852FC6259.wsnAw8kcdt7IPYLO0V48gA%3a8>)

Ricardo N. Alves, Odete Cordeiro, Tomé S. Silva, Nadège Richard, Mahaut de Vareilles, Giovanna Marino, Patrizia Di Marco, Pedro M. Rodrigues and Luís E.C. Conceição (2010). **Metabolic molecular indicators of chronic stress in gilthead seabream (*Sparus aurata*) using comparative proteomics.** *Aquaculture*, **299** (1-4), 57-66. (doi: 10.1016/j.aquaculture.2009.11.014)

Elandalloussi LM, Leite RB, Rodrigues PM, Afonso R, Cancela ML (2008). **Effect of the herbicide Roundup (R) on *Perkinsus olseni* in vitro Proliferation and in vivo survival when infecting a permissive host, the clam *Ruditapes decussatus*.** *Bulletin of Environmental Contamination and Toxicology*, **80**, 512-515.

Pedro M. Rodrigues, Anjos L. Macedo, Brian J. Goodfellow, Isabel Moura and José J. G. Moura (2006). ***Desulfovibrio gigas* ferredoxin II: redox structural modulation of the [3Fe-4S] cluster.** *Journal of Biological Inorganic Chemistry*, **11**(3), 307-315.

Laurence M. Elandalloussi, Pedro M. Rodrigues, Ricardo Afonso, Patricia A. Nunes, and M. Leonor Cancela (2005.) **Shikimate and folate pathways in the protozoan parasite, *Perkinsus atlanticus***. *Molecular and Biochemical Parasitology*, **142**, 106-109.

Laurence M. Elandalloussi, Ricardo M. Leite, Pedro M. Rodrigues, Ricardo Afonso, Patricia A. Nunes, and M. Leonor Cancela (2005). **Effect of antiprotozoal drugs on the proliferation of the carpet-shell clam parasite *Perkinsus atlanticus***. *Aquaculture*. **243**, 9-17. (doi: 10.1016/j.aquaculture.2004.09.038)

Pedro M. Rodrigues, I. Moura, Anjos L. Macedo and José J.G. Moura (2003). **Spectroscopic characterization of a novel 2x[4Fe-4S] ferredoxin isolated from *Desulfovibrio desulfuricans* ATCC 27774**. *Inorganic Chimica Acta*. **356**, 215-221. (DOI: 10.1016/S0020-1693(03)00472-9)

Rodrigues, P., Fernando Graça, Anjos L. Macedo, I. Moura and J.J.G. Moura (2001). **Characterization of recombinant *Desulfovibrio gigas* ferredoxin**. *Biochemical and Biophysical Research Communications*, **289**: 630-633.

G. Battistuzzi, M. D'Onofrio, M. Borsari, M. Sola, A. L. Macedo, J. J. G. Moura and P. Rodrigues (2000). **Redox thermodynamics of low-potential iron-sulfur proteins**. *Journal Biol. Inorg. Chemistry* **5**: 748-760. (doi:10.1007/s007750000164)

Macedo, A.L., P. Rodrigues and Brian J. Goodfellow (1999). **The 3Fe containing ferredoxin from *Desulfovibrio gigas*: An NMR characterization of the oxidised and intermediate states**. *Coordination Chemical Reviews*, **190**: 871-881. (DOI: 10.1016/S0010-8545(99)00126-5)

Brian J. Goodfellow, A.L. Macedo, P. Rodrigues, Victor Wray, I. Moura and J.J.G. Moura (1999). **The solution structure of a [3Fe-4S] ferredoxin – oxidized ferredoxin II from *Desulfovibrio gigas***. *Journal of Biological Inorganic Chemistry*, **4**: 421-439. (DOI: 10.1007/s007750050328)

Book Chapters

Pedro M Rodrigues, Samuel A M Martin, Tomé S Silva, Surintorn Boonanuntanasarn, Denise Schrama, Márcio Moreira and Cláudia Raposo (2018). **Proteomics in Fish and Aquaculture research**. Springer International Publishing Switzerland 2017, *Proteomics in Domestic Animals: from farm to Systems Biology*. ISBN: 978-3-319-69682-9 https://doi.org/10.1007/978-3-319-69682-9_16

Pedro M Rodrigues, Alexandre Campos, Jacob Kuruvilla, Denise Schrama and Susana Cristobal (2016). **Proteomics in Aquaculture: Quality and safety**. Elsevier International Publishing 2016 Michelle Colgrave (ed.). *Proteomics in Food Science – From farm to fork*. 279-295. ISBN: 978-0-12-804007-2. Doi: 10.1016/B978-0-12-804007-2.00017-5

Pedro M. Rodrigues, Denise Schrama, Alexandre Campos, Hugo Osório and Marisa Freitas (2016). **Applications of proteomics in Aquaculture**. Springer International Publishing Switzerland 2016 G.H. Salekdeh (ed), *Agricultural Proteomics Volume 1*, DOI 10.1007/978-3-319-43275-5_10.

Articles in other referred journals, national and international

Leite, R.M., Rodrigues, P.M., Elandalloussi, L.M., Afonso, R.M., Nunes, P.A. and Cancela, M.L (2003). **Perkinsus Atlanticus – Desenvolvimento de um método de diagnóstico para detecção de infecção em moluscos bivalves.** *Boletim de Biotecnologia* **75**, 8-11.

Papers in refereed conference proceedings and published abstracts (Reverse chronological order)

Denise Schrama, Cláudia Raposo, Marco Cerqueira, Annette Kuehn, Martine Morriset, Pedro Rodrigues. (2018). **Effect of diet supplementation on the modulation of fish allergenicity.** L'Acqua 2018. Latin American & Caribbean Aquaculture, October 23-26 2018. Bogotá, Colombia.

Denise Schrama, Cláudia Raposo and Pedro Rodrigues. (2018) **Modulation of fish allergenicity towards the production of a low allergen farmed fish.** ICMBO 2018 : 20th International Conference on Marine Biology and Oceanography, September 17 - 18, 2018, Vancouver, Canada, September 17 – 18.

Denise Schrama, Cláudia Raposo, Annette Kuehn, Pedro Rodrigues. (2017) **Allergen identification in two main Mediterranean fish species using proteomics.** 3rd ImpARAS conference. October 10-12, 2017 Helsingør, Denmark.

Denise Schrama, Rita Colen, Sofia Engrola, Tomé Silva, Pedro M.L. Rodrigues (2018). **Effects of amino acid supplementation on the performance of gilthead seabream using 2D-DIGE.** HUPO2017 - 16th Human Proteome Organization World Congress 17 - 21 September 2017. Dublin, Ireland.

Pedro M L Rodrigues, Denise Schrama and Cláudia Raposo. (2017) **Modulation of fish allergenicity towards the production of a low allergen farmed fish; a proteomics approach.** 8th International Conference on Proteomics and Bioinformatics. May 22-24, Osaka, Japan.

Denise Schrama, Cláudia Raposo, Annette Kuehn and Pedro Rodrigues (2016). **Effect of EDTA Enriched Diets in Fish Allergenicity; A Proteomics Approach.** 2nd Internatioan Conference of Imparas – Improving Allergy risk Assessment strategy for new food proteins. September 20-22, Warsaw, Poland.

Schrama, D., Engrola, S., Colen, R., Silva, TS. and Rodrigues PM (2016). **Effects of supplementation in histidine, threonine and tryptophan on Gilthead seabream imune status using a proteomics approach.** 15th Human Proteome Organization World Congress, September 18-22, Taipé, Taiwan.

Pedro M. Rodrigues, Denise Schrama (2016). **Creatine supplementation to modulate allergenicity in European seabass; a proteomics study**. 2nd Global Summit on Aquaculture & Fisheries July 11-13, 2016 Kuala Lumpur, Malaysia

Denise Schrama, Cláudia Raposo and Pedro M. Rodrigues (2016). **Creatine supplementation on fish main allergen b-parvalbumin, using a proteomics approach**. X Annual Congresso of the European Proteomics association, June 21-25, Istanbul, Turkey.

Márcio Moreira, Denise Schrama, Florbela Soaes, Pedro Pousão-Ferreira, Pedro Rodrigues (2014). **Proteomic analysis of gilthead sea bream (*Sparus aurata*) plasma with amyloidinosis**. Farmed animal proteomics 2014 annual meeting. Milano, Italy. Wageningen Academic publishers.

Denise Schrama, Tomé Silva, Nadège Richard, Filipe Figueiredo, Richard Burchmore, David Eckersall, Jorge Dias, Luis Conceição, Pedro M. Rodrigues (2014). **Dietary effects influence on Gilthead seabream winter syndrome; an integrated metabolomics and proteomics analysis on plasma profiling**. 10th annual conference of the metabolomics society, 2014. Tsuruoka, Japan. Proceedings.

Rodrigues, Pedro M.; Silva, Tomé S.; Richard, Nadège; Denise Schrama; Dias, Jorge; Conceição, Luís E. C.; Rosa da Costa, Ana. (2013). **Integrated proteomic and metabolic profiling of gilthead seabream liver to track interactions between dietary factors and seasonal temperature variations**. 9th annual conference of the metabolomics society, 2013. Glasgow, UK. Proceedings.

Inês M. Luis; Alessio Soggiu; Paola Roncada; Luigi Bonizzi; Denise Schrama; Dias, Jorge; Sara Prates; Rodrigues, Pedro M. (2013). **Allergen Characterization in Mediterranean farmed fish: a proteomic approach**. Farmed animal proteomics 2013 annual meeting. Kosice, Slovakia. 282-286. Wageningen Academic publishers.

Rodrigues, Pedro M.; Richard, Nadège; de Vareilles, Mahaut; Silva, Tomé S.; Canada, P.; Engrola, Sofia; Pinto, W.; Dias, Jorge; Conceição, Luís E. C. (2012). **Proteomics as a toll to evaluate the bioactivity effects of farmed senegales sole fed with a new developed microencapsulated feed**. EuPA 2012 Scientific Meeting, Glasgow UK. P143, 126.

Richard, Nadège; Gavaia, Paulo J.; de Vareilles, Mahaut; Silva, Tomé S.; Cordeiro, Odete; Rodrigues, Pedro M.; Conceição, Luís E. C. (2012). **Two-dimensional proteomics as a tool to evaluate nutritional effects in farmed fish**. Farm Animal Proteomics Spring Meeting 2012. Vilamoura, Portugal. 156-158. Wageningen Academic publishers.

Silva, Tomé S.; Rodrigues, Pedro M.; Matos, Elisabete; Wulff, Tune; Cordeiro, Odete; Alves, Ricardo N.; Richard, Nadège; de Vareilles, Mahaut; Jessen, Fleming; Dias, Jorge; Conceição, Luís E. C. (2012). **Proteomics as a tool to understand fish stress in aquaculture**. Farm Animal Proteomics Spring Meeting 2012. Vilamoura, Portugal. 198-201. Wageningen Academic publishers.

de Vareilles, Mahaut; Conceição, Luís E.C.; Gómez-Requeni, P.; Kousoulaki, K.; Rodrigues,

Pedro M.; Richard, Nadège; Fladmark, Kari E.; Cordeiro, Odete; Silva, Tomé S.; Rønnestad, Ivar. (2011). **The muscle proteome of growing zebrafish is affected by dietary lysine.** Beijing. 12th International Congress on Amino Acids, Peptides and Proteins. Beijing, China.

Odete D. Cordeiro, Tomé S. Silva, Ricardo N. Alves, Benjamin Costas, Tune Wulff, Nadège Richard, Mahaut de Vareilles, Luís E.C. Conceição, Pedro M. Rodrigues (2010). **Changes in the liver proteome of Senegalese sole in response to repeated handling stress: the unfolded protein response.** 4th EuPA Scientific Meeting. A Proteomics Odyssey Towards Next Decades, Lisbon, Portugal. PG13, 386-388.

Célia M. Silveira, Odete Cordeiro, Leonardo Dall'Agnol, Isabel Moura, José J.G. Moura, Pedro M. Rodrigues, M. Gabriela Almeida (2010). **Study of *Desulfovibrio desulfuricans* ATCC 27774 Respiratory Flexibility using a Differential in Gel Electrophoresis Approach.** 4th EuPA Scientific Meeting. A Proteomics Odyssey Towards Next Decades, Lisbon, Portugal. PG36, 429-430.

Daniel V. Oliveira, Sofia I. Cavaco, Tomé S. Silva, Odete D. Cordeiro, Pedro M. Rodrigues, Dina Simes (2010). **Proteomic analysis of nacre soluble matrix proteins from *Crassostrea Gigas*.** 4th EuPA Scientific Meeting. A Proteomics Odyssey Towards Next Decades, Lisbon, Portugal. PH21, 506-507.

Pedro M Rodrigues, Tomé S Silva, Odete Cordeiro, Luís EC Conceição (2009). **Proteomic characterization of reared white seabream skeletal deformities using two-dimensional gel electrophoresis: a comparative study.** 3rd EuPA congress on *Clinical Proteomics*, Stockholm, Sweden. P4-08, 392-394.

P.M.L. Rodrigues, O. Cordeiro, T.S. Silva and L.E.C. Conceição (2007). **Skeletal development analysis by two-dimensional electrophoresis (2-DE) in white bream (*Diplodus sargus*), fed with different diets.** *Journal of Bone and Mineral Research*, 22(1), S282.

Leite, R.B, Elandalloussi, L., Afonso, R., Rodrigues, P., Ascenso, R., Cancela, M.L. (2005). **An overview of the metabolic pathways in the protozoan parasite *Perkinsus Atlanticus/Olseni*: Identification of potential targets for therapeutic drugs.** *Acta Parasitológica Portuguesa*, 12, 405-406.

Rodrigues, P.M.; Elandalloussi, L.M. and Cancela, M.L. (2004). **Effect of new drugs on the proliferation of *Perkinsus atlanticus*, towards the development of a therapy.** *The European Journal of Biochemistry*. 271,1, 206.

P.M. Rodrigues, A.L.Macedo, I.Moura and J.G. Moura (2003). **Characterization of a new 8Fe protein isolated from *Desulfovibrio desulfuricans* ATCC 27774.** *Journal of Inorganic Biochemistry* 96, 1, 220.

V. Laizé, J. P. Pinto, A. R. Pombinho, P. M. Rodrigues and L. Cancela (2001). **Development of an *in vitro* bone-derived cell system from a teleost fish to analyse the regulatory pathways responsible for the bone-specific expression of osteocalcina.** *European Journal of Biochemistry*, 268: 100.

Cancela, L., D. Simes, P. Rodrigues, N. Conceição, J.P. Reia, M.K. Willianson, P.A. Price (2000). **Expression of Matrix Gla Protein (MGP) in fish and amphibian: a model system to study the evolution of MGP function.** *Journal of Bone and Mineral Research*, **15**: S474.

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Denise Schrama, Cláudia Raposo, Annette Kuehn and Pedro Rodrigues (2018). **Modulation of fish allergenicity towards the production of a low allergen farmed fish.** 3rd International Conference of Imparas – Improving Allergy risk Assessment strategy for new food proteins. June 19-21, Naples, Italy.

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Pedro M L Rodrigues, Denise Schrama and Cláudia Raposo. **Fish allergenicity modulation towards the production of a low allergen fish.** VIII SPB clinical biochemistry workshop, allergy and environment, February 24, 2018 University of Évora, Portugal

Pedro M L Rodrigues, Denise Schrama and Cláudia Raposo (2018). **Fish allergenicity modulation towards the production of a low allergen farmed fish; a proteomics approach.** 2018 International Conference on Sustainable Global Aquaculture (ICSGA), January 24-26, Bangkok, Thailand.

L. Ramos-Pinto, G. Lopes, V. Sousa, F. Castro, D. Schrama, P. Rodrigues, L.M.P. Valente (2017). **EFFECTS OF DIETARY CREATINE SUPPLEMENTATION IN GILTHEAD SEABREAM (*SPARUS AURATA*) MUSCLE GROWTH.** Aquaculture Europe 2017. October 17-20. Dubrovnik, Croatia.

B. Costas, T.S. Silva, R. Azeredo, M. Machado, D. Schrama, T. Wulff, L.E.C. Conceição, J. Dias, P.M.L. Rodrigues, N. Richard (2017). **A NUTRITIONAL STRATEGY TO IMPROVE THE GILTHEAD SEABREAM IMMUNE STATUS DURING WINTER THERMAL STRESS.** XI Congreso de la Asociación Ibérica de Endocrinología Comparada. 13-15 July. Vigo, Spain.

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Ana Ramalho and Pedro M. Rodrigues (2016). **Desenvolvimento do peixe de aquacultura como alimento funcional: fortificação em nutrientes naturais e redução do potencial alergénico**. X Seminário Aquícola. 29 de Abril, Setúbal, Portugal.

Denise Schrama; Pedro M. Rodrigues (2015). **Use of creatine supplementation in European seabass to modulate parvalbumin expression**. Improving Allergy Risk Assessment Strategy for New Food Proteins; Imparas 2015 annual meeting. Belgrade, Serbia.

Pedro M. Rodrigues (2015). **Contribute of aquaculture in human food; Fish allergenicity modulation**. Blue week Lisbon 2015. Lisbon. Portugal

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Richard, Nadège; Silva, Tomé S.; Wulff, Tune; Schrama, Denise; Figueiredo, Filipe; Dias, Jorge; Rodrigues, Pedro M.; Conceição, Luís E. C. (2014). **Evaluation of metabolic dysfunctions caused by winter thermal stress in gilthead seabream through a 2D proteomic approach**. 16th International Symposium on Fish Nutrition and Feeding (ISFNF XVI). Cairns, Australia.

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Yúfera, Manuel; Pousão-Ferreira, Pedro; Rodrigues, Pedro M; Conceição, Luís E. C. (2012). **Impact of dietary protein hydrolysates content on skeleton quality and proteome expression in white seabream (*Diplodus sargus*) larvae.** Interdisciplinary Approaches in Fish Skeletal Biology. Tavira, Portugal.

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Pedro M L Rodrigues, Denise Schrama and Cláudia Raposo (2018). **Allergenicity modulation of farmed fish.** 20th World Congress on Nutrition & Food Sciences May 14-16, Tokyo, Japan

Denise Schrama, Rita Colen, Sofia Engrola, Tomé Silva, Pedro M.L. Rodrigues (2018). **Effects of histidine, threonine and tryptophan supplementation on the performance of gilthead seabream using 2D-DIGE.** 2018 International Conference on Sustainable Global Aquaculture (ICSGA), January 24-26, Bangkok, Thailand

Pedro M. Rodrigues; Denise Schrama, Cláudia Raposo (2017). **Modulation of fish allergenicity towards the production of a low allergen farmed fish; a proteomics approach** Congress: 8th International Conference on Proteomics and Bioinformatics, May 22-24, Osaka, Japan

Cláudia Raposo; Denise Schrama; Annette Kuehn; Martine Morisset; Pedro M. Rodrigues (2016). **Effect of EDTA enriched diets on farmed fish allergenicity; a proteomics approach** 2nd ImpARAS Conference, September 20-22, Warsaw, Poland.

Schrama, Denise; Raposo, Cláudia; Rodrigues, Pedro M. (2016). **Creatine supplementation effect on fish main allergen β -parvalbumin, using a proteomics approach.** Congress: X ANNUAL CONGRESS OF THE EUROPEAN PROTEOMICS ASSOCIATION, Istanbul, Turkey.

Rodrigues, Pedro M.; Schrama, Denise (2016). **Creatine supplementation to modulate allergenicity in European seabass; a proteomics study.** 2 ND GLOBAL SUMMIT ON AQUACULTURE & FISHERIES. Kuala Lumpur, Malaysia.

Denise Schrama; Pedro M. Rodrigues (2015). **Supplementation with creatine to modulate parvalbumin expression in Seabass.** Fenacam & Lacqua/Sara (WAS) 2015. Fortaleza, Brasil.

Schrama, D., Mohamed, G., Hüselmann, L.H.H., Ndimba, B.K; Rodrigues, P.M (2015). **Effect of Creatine Supplementation in Fish Allergenic Potential; A Proteomics Study.** XXIV World Allergy Congress. Seoul, South Korea.

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Mahaut de Vareilles, Pedro Gómez-Requeni, Katerina Kousoulaki, Nadège Richard, Odete Cordeiro, Tomé S. Silva, Pedro M. Rodrigues, Luis E.C. Conceição and Ivar Rønnestad. **Growth**

and muscle proteome response to a dietary lysine unbalance in zebrafish juveniles. The 14th International Symposium on Fish Nutrition and Feeding, May 31st – June 4th, Qingdao, China. (2010)

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Elisabete Matos, Maria Teresa Dinis, Pedro Rodrigues, Luísa M.P. Valente, Amparo Gonçalves, Maria Leonor Nunes, Jorge Dias. **Farming practices of gilthead seabream (*Sparus aurata*) in semi-intensive earth ponds: effects on the flesh quality.** SEACASE 2010. 19th January, Tavira, Portugal. (2010)

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P Rodrigues, L Elandaloussi, R Afonso and M Cancela. **Shikimate and Folate pathways as targets for parasitic therapy in the protozoan parasite *Perkinsus atlanticus*.** Keystone symposia. Drugs against protozoan parasites: Target selection, structural biology and medicinal chemistry. Copper Mountain, Colorado, USA. (2005)

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A.L.Macedo, B.J.Goodfellow, Pedro Rodrigues, I.Moura and J.J.G. Moura. **Structural multidimensional NMR studies of [3Fe-4S] Ferredoxin from *D.gigas*.** EUROBIC 4. Sevilha, Espanha.(1998)

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Pedro Rodrigues, F.Rusnak, A.L.Macedo, I.Moura and J.J.G. Moura. **Overexpression of the *Desulfovibrio gigas* ferredoxin II in *E.Coli***. Síntese, Reactividade e Estrutura em Química Inorgânica. Fátima, Portugal. (1997)

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Pedro Rodrigues, Anjos L.Macedo, Isabel Moura and José J.G Moura. **1D and 2D NMR studies on Ferredoxin II from *Desulfovibrio gigas***. Inorganic Biochemistry Summer Workshop. University of Georgia, Athens, U.S.A. (1995)

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Editorial

Editorial board member

International Journal of Fisheries Science and Research

Journal of Integrated OMICS

Books

de Almeida, André; Eckersall, David; Bencurova, Elena; Dolinska, Saskia; Mlynarcik, Patrik; Vincova, Miroslava eds. **Farm animal proteomics 2013**. Proceedings of the 4th Managing Committee Meeting and 2nd Meeting of Working Groups 1, 2 & 3. 1. ed. The Netherlands: Wageningen Academic publishers, 2013. (Scientific committee). ISBN: 978-90-8686-222-1

Rodrigues, Pedro M.; Eckersall, David; Almeida, André. **Farm Animal proteomics**. Proceedings of the 3rd Managing Committee Meeting and 2nd Meeting of Working Groups 1, 2 & 3. 1. ed. Wageningen, The Netherlands: Wageningen Academic Publishers, 2012. (Editor). ISBN: 978-90-8686-195-8

Reviewer

Reviewer on a regular basis for the following scientific magazines:

Eupa Open proteomics (1)
Journal of Proteomics (7)
Proteomics (3)
Proteome Science (1)
Journal of Proteome Research (1)
African Journal of Biotechnology (1)
African Journal of Pharmacy and Pharmacology (1)
African Journal of Agriculture Research (1)
Aquaculture Research (1)
Comparative Biochemistry and Physiology (1)
Food Chemistry (1)

Research Projects (Reverse chronological order)

“Early metabolic programming in fish through nutritional modulation” - PROLAR Funding entity: FCT; Ref. 02/SAICT/2017/29151; Funding: € 239 954. July 2018-December 2020.

“Estabelecimento de biomarcadores de bem-estar em peixe de aquacultura através de uma abordagem proteómica” - WELFISH, 16-02-05-FMP-1. Mar2020. April 2018 – April 2021. (Principal investigator). Funding € 745 982,85. Abril 2018 – Dezembro 2020

“Desenvolvimento de um peixe de aquacultura com reduzido teor alergénico - ALLYFISH”. 16-02-01-FMP-0014. MAR2020: DESENVOLVIMENTO SUSTENTÁVEL DA AQUICULTURA - TIPOLOGIA INOVAÇÃO. (Principal investigator). Funding: € 484 222,78. Outubro 2017 – Setembro 2020.

“Estudio integral de los bancos naturales de moluscos bivalvos en el Golfo de Cádiz para su gestión sostenible y la conservación de sus habitats asociados”. EP - INTERREG V A España Portugal (POCTEP). June 2017 – June 2020.

“Bases para uma alimentação saudável e sustentável para peixes de aquaculture – ALISSA (Healthy and sustainable feeds for farmed fish)”. ALG-01-0247-FEDER-003520. Project in cooperation with Sparus Ltda. Co-promotion /: QREN. (Principal investigator). October 2105 – December 2018.

“Improving Allergy risk assessment strategy for new food proteins (IMPARAS)”. COST action FA1402. European cooperation framework in science and technology. Portuguese representative of the organizing committee. November 2014 – November 2018.

“Desenvolvimento do peixe de aquaculture como alimento funcional: Fortificação em nutrientes naturais e redução do potencial alergénico – AQUAVALOR (Development of a farmed fish as a functional food: Natural nutrient fortification and allergenic potential reduction)”. PROMAR – Projeto Piloto; 31-03-05-FEP-0060. Junho 2014 – Dezembro 2015.

“Desenvolvimento de um alimento que reduza os efeitos da doença de inverno na dourada com recurso a indicadores moleculares de condição - INUTR (Development of a feed to reduce the effects of Winter disease in Gilthead seabream recurring to molecular indicators of condition)”. Project in cooperation with Sparus Ltda. Co-promotion /: QREN 2007-2013, Project 21595-INUTR, QREN. September 2011 – August 2014.

“Cooperação transfronteiriça para o desenvolvimento de boas práticas sanitárias na aquacultura marinha - BONAQUA (Transborder cooperation for the development of good sanitarian practice in marine aquaculture - BONAQUA)”. POCTEP (Programa Operativo de Cooperación Transfronteriza España – Portugal). 0433-BONAQUA-5-E. January 2011 – December 2012.

“A new approach for the identification of osteoarthritis therapeutic targets: The application of 2D-DIGE proteomics – OSTEOARTE”. Project in cooperation with Dr^a Dina Simes (FCT, CCMar, Universidade do Algarve). Fundação para a Ciência e Tecnologia, Ciências e Tecnologias do Mar (PTDC/SAU-ORG/112832/2009). January 2011 - December 2013.

“Farm animal proteomics”. COST action FA1002. European cooperation framework in science and technology. Portuguese representative of the organizing committee. November 2010 – November 2014.

“Desenvolvimento de um alimento microencapsulado para larvas de peixes – MICALA (Development of a microencapsulated feed for fish larvae)”. Project in cooperation with SPARUS Ltda. Co-Promotion / QREN2010. October 2010 – August 2012.

“Post-mortem changes in gilthead sea bream muscle proteins: its implications to flesh texture – TEXBREAM”. Project in cooperation with Dr^o Jorge Dias (FCMA, CCMar, Universidade do Algarve). Fundação para a Ciência e Tecnologia, Ciências e Tecnologias do Mar (PTDC/MAR/70858/2006). June 2008 - June 2011.

“HYDRAA - Improved dietary nitrogen formulations for marine fish larvae: effects on growth performance and skeletal formation”. Project in cooperation with Dr^o Luís Conceição (FCMA, CCMar, Universidade do Algarve). Fundação para a Ciência e Tecnologia, Ciências e Tecnologias do Mar (PTDC/MAR/71685/2006). April 2008 - April 2011.

“Identificação de indicadores moleculares de bem-estar durante o cultivo de peixes em aquaculture (Identification of welfare biomarkers during fish farming in aquaculture)”. Project in cooperation with Dr^o Luís Conceição (FCMA, CCMar, Universidade do Algarve). Ceratonia Prize for best project 2007 in Sea Sciences, Universidade do Algarve, Caixa Geral dos Depósitos. April 2007 - April 2008.

“SAARGO1-Dietary amino acids and skeletal development in white bream (*Diplodus spp.*)”. Project in cooperation with Dr^o Luís Conceição (FCMA, CCMar, Universidade do Algarve). Fundação para a Ciência e Tecnologia, Ciências e Tecnologias do Mar (POCI/MAR/61623/2004). November 2005 - October 2007.

“Characterization of the folate and purine metabolism in the protozoan parasite *Perkinsus atlanticus*: Identification of genes involved in these pathways and potential therapeutic

targets". Project in cooperation with Professora Leonor Cancela (FCMA, CCMar, Universidade do Algarve). Fundação para a Ciência e Tecnologia, Ciência animal e Ciências Veterinárias (POCTI/CVT/57982/2004). July 2005 - June 2008.

"Differential protein expression in relation to dietary AA composition: a proteomic approach towards understanding growth in fish". Project in cooperation with Dr^o Ivar Rønnestad (University of Bergen, Norway) Research Council of Norway (165203/S40). April 2005 - March 2008.

Organization of conferences and workshops (Reverse chronological order)

AQUAVALOR WORKSHOP. Desenvolvimento do peixe de aquacultura como alimento funcional: Fortificação em nutrientes naturais e redução do potencial alergénico – AQUAVALOR (Development of a farmed fish as a functional food: Natural nutrient fortification and allergenic potential reduction. (2015). Universidade do Algarve, Faro, Portugal. 15th December. 40 Participants.

FARM ANIMAL PROTEOMICS ANNUAL MEETING (2012). Tivoli Marina Hotel, Vilamoura, Portugal. 12 – 13 April. Organizer. 110 participants.

WORKSHOP ON PROTEOMICS IN BIOLOGY (2012). Universidade do Algarve, Faro, Portugal. 11th April. Organizer. 120 participants.

CCMAR COURSE ON 2D-DIGE (2009) Rodrigues PM, October 13-15, Faro, Portugal. Organizer. 10 participants.

XIV BIOCHEMISTRY NATIONAL CONGRESS (2004). Tivoli Marina Hotel, Vilamoura, Portugal, 2-4th December. Organizing committee. 400 participants.

Supervision

Post-Docs

Paula Farinha, Post-Doc scholarship Ualg 016/2018. Projeto Wellfish -**"Estabelecimento de biomarcadores de bem-estar em peixe de aquacultura através de uma abordagem proteómica"** contrato 16-02-05-FMP-0012, Programa Operacional Mar2020: Fundo Europeu dos Assuntos Marítimos e das Pescas (FEAMP). July 2018.

Marco Cerqueira, Post-Doc scholarship Ualg 049/2017. Projeto Allyfish – **"Estabelecimento de biomarcadores de bem-estar em peixe de aquacultura através de uma abordagem proteómica"** contrato 16-02-01-FMP-0014, programa financiador Mar2020: Desenvolvimento sustentável da aquicultura – Tipologia inovação. November 2017.

Nadège Richard, Post-Doc scholarship SFRH/BPD/109930/2015. Co-orientation with Doctor Luís Conceição. Universidade do Algarve.

José Beirão Santos. Post-Doc scholarship SRFH/BPD/95491/2013, **"Comprehensive study of the effects of stress in teleost broodstock males in marine aquacultures: endocrinologic and**

proteomic approach". Co-orientation with Doctor Florbela Soares. IPIMAR/Universidade do Algarve)

Nadège Richard, Post-Doc scholarship SRFH/BPD/65578/2009, "**Identification of molecular fish welfare indicators**". Co-orientation with Doctor Luís Conceição. Universidade do Algarve.

Nadège Richard, Post-Doc scholarship SRFH/BPD/34888/2007, "**Nutritional influence of dietary nitrogen on fish skeletogenesis: a proteomic and functional genomics approach**". Co-orientation with Doctor Luís Conceição. Universidade do Algarve.

PhD thesis

Cláudia Raposo. "**Establishment of farmed fish welfare biomarkers; a multi-omics approach**". Supervisor. Universidade do Algarve. **February 2019**.

Denise Schrama. "**Characterization and modulation of fish allergenicity towards the production of a low allergen farmed fish**". Supervisor. Universidade do Algarve. **January 2019**.

Márcio Júlio Vicente Moreira. "**Mechanisms of infection by the parasitic dinoflagellate Amyloodinium ocellatum, and physiological responses to infection in different marine fish species**". SFRH/BD/11860/2016. Supervision with Doctor Florbela Soares. Universidade do Algarve. **September 2017**.

Mahaut de Vareilles, PhD scholarship FCT-SFRH/BD/40698/2007, "**Dietary nitrogen utilization and protein expression in fish**". Co-orientation with Doctor Luís Conceição and Professor Ivar Rønnestad. Universidade do Algarve. **January 2014**.

Tomé Santos Silva, PhD scholarship FCT-SFRH/BDP/41392/2007, "**Post-mortem changes in gilthead seabream muscle proteins as affected by nutritional factors and farming conditions: a proteomic approach**". Co-orientation with Doctors Jorge Dias and Flemming Jessen. Universidade do Algarve. **June 2013**.

Master thesis

Cláudia Sofia Ferreira Raposo. "**Effect of EDTA enriched diets on farmed fish allergenicity; a proteomics approach**." Masters in Aquaculture and Fisheries. Co-orientation of Dr^a Sara Prates. Hospital Dona Estefânia, Lisboa, Portugal. November 2016. Universidade do Algarve, Portugal.

Lourenço de Oliveira Coelho e Ramos Pinto. "**Effects of dietary creatine supplementation on muscle growth in gilthead seabream (*Sparus aurata*)**." Masters in Marine Sciences. Marine resources. Co-orientation with Prof. Luisa Valente. University of Porto/University of Algarve. (July 2015).

Márcio Júlio Vicente Moreira. Contaminação pelo parasita *Amyloodinium ocellatum* de

douradas (*Sparus Aurata*, Linnaeus, 1758) produzidas em aquacultura - abordagem a nível proteómico. **“Seabream (*Sparus Aurata*, Linnaeus, 1758) contamination by the parasite *Amyloodinium ocellatum*, produced in aquaculture – a proteomic approach.”** Masters in Marine Biology. Co-orientation with Dr^a Florbela Soaraes. IPIMAR/Universidade do Algarve. (December 2015).

Ricardo Alves, **“Proteomic identification of molecular welfare biomarkers during gilthead cultivation (*Sparus aurata*, Linnaeus 1758)”**. Masters in Marine Biology. Co-orientation with Doctor Luís Conceição. University of Algarve. (December 2008).

Degree thesis

André Filipe Afonso de Sousa Fonseca, **“Aplicações Biomédicas da Imagiologia de espectrometria de massa – MALDI Imaging”**. Degree in Biomedical Sciences, Universidade do Algarve. 2016.

Ricardo Moreira de Carvalho, **“Deteção e modulação de agentes alergénios em peixes de aquacultura; uma perspetiva proteómica”**. Degree in Biomedical Sciences, Universidade do Algarve. 2015.

Bruno Tavares, **“Enzymatic and Metabolic quality parameters evaluation in Sole (*Solea senegalensis*)”**. Degree in Marine Biology, Universidade do Algarve. 2013.

Ana Mestre, **“Proteomics role in disease biomarker discovery”**. Degree in Biomedical Sciences, University of Algarve. (September 2010).

José Eduardo Rosa, **“Proteomics and Biomarkers in Neurological diseases”**. Degree in Biomedical Sciences, University of Algarve. (June 2009).

Mauro Sousa, **“Study of the proteome associated to degenerative pathologies of cartilage”**. Degree in Biomedical Sciences, University of Algarve. (September 2009).

Tomé Santos Silva, **“Differential expression analysis from sea bream (*Diplodus sargus*) skeletal proteins in normal and deformed fish”**. Degree in Biochemistry, University of Algarve. (November 2007).

Jury participation

PhD thesis

Lénia Isabel Alfaite Rodrigues. **“O envolvimento de proteínas salivares na sensibilidade gustativa”**. PhD in Biochemistry. Universidade de Évora. July 2017.

Catarina Figueiredo da Mota. **“Molecular mechanisms of desiccation tolerance in *Fucus*”**. PhD in Earth, Sea and Environmental Sciences. Universidade do Algarve. May 2017.

Waldo G. Nuez-Ortin, **“Proteomic and Phenotypic Approaches to Assess Nutritional Physiology in Atlantic Salmon”**. Degree of Doctor of Philosophy. Institute for Marine and Antarctic Studies (IMAS), University of Tasmania, Australia. September 2016.

Anathi Perseverence Njokweni, **“Comparative analysis of sugar biosynthesis-related proteins of Sorghum bicolor (L) Moench and investigation of their role in hyperosmotic stress tolerance”**. PhD in the Department of Biotechnology, University of the Western Cape, Cape Town, South Africa. February 2015.

Mahaut Diane Marie Stéphanie de Labroue de Vareilles Sommières, **“Dietary nitrogen utilization and protein expression in fish”**. PhD in Earth, Sea and Environmental Sciences. Universidade do Algarve. January 2014.

Tomé Pereira de Azevedo Santos Silva. **“Using proteomic technologies to understand the impact of stress and nutritional factors on fish metabolism, welfare and quality.”** PhD in Biological Sciences - Universidade do Algarve. June 2013.

Jessie Mara Donaire Bosisio de Melo. **“The proteomic response of Listeria monocytogenes to cheese matrix and gastrointestinal stress.”** PhD in Biological Sciences - Universidade do Algarve. January 2013.

Célia Marisa Costa Figueiredo Silveira. **“Development of electrochemical nitrite biosensors using cytochrome c nitrite reductase from Desulfovibrio desulfuricans ATCC 27774.”** PhD in Sustainable Chemistry - Universidade Nova de Lisboa. 2011.

Rute Rodrigues, **“Functional analysis of Desulfovibrio gigas ROO and Ech hydrogenase”**. PhD in Biology, ITQB, New University of Lisbon. April 2007.

Dina Costa Simes, **“Purification, biochemical characterization and localization at single cell resolution of Matriz Gla Protein (MGP) and Bone Gla Protein (BGP) in the teleost fish Argyrosomus regius”**. PhD in Biochemistry, University of Algarve. January 2003.

Master thesis

João Pedro Oliveira Nascimento. **“Influence of sperm density on cryopreservation outcomes in sturgeon”** Masters in Aquaculture and Fisheries. Universidade do Algarve, 2018.

João Paulo Ribeiro Proença Santana. **“Optimization of a sperm cryopreservation protocol for spotted wolffish (Anarhichas minor Olafsen, 1772)”**. Masters in Aquaculture and Fisheries. Universidade do Algarve, 2018.

Ana Luísa Lopes Santos. **“Optimization of *in vitro* fertilization using cryopreserved sperm of**

Crassostrea angulata and establishment of a cryopreservation protocol for **Chamelea gallina**". Masters in Aquaculture and Fisheries. Universidade do Algarve, 2018.

Diogo Alexandre Marques Soares. "Optimisation of algorithms to predict biomass and size distribution of fish reared in cages, using the Aquanetix production management software". Masters in Aquaculture and Fisheries. Universidade do Algarve, 2018.

Rui Miguel dos Santos Pereira. "O efeito da qualidade da proteína na condição de juvenis de corvina (*Argyrosomus regius*)". Masters in Aquaculture and Fisheries. Universidade do Algarve, 2017.

Filipa Andreia Coutinho Beça. "Effects of native probiotic-candidates on the immune status, inflammatory response and disease resistance of turbot (*Scophthalmus maximus, L.*), upon rectal administration". Masters in Aquaculture and Fisheries. Universidade do Algarve, 2017.

Jérôme Pierre Joseph Darras. "Aquaculture of the stalked barnacle *Pollicipes pollicipes*: improving farming techniques in an extensive system located in Sines (Portugal)". Masters in Aquaculture and Fisheries. Universidade do Algarve, 2017.

Maria Cámara Ruiz. "Effects of purslane (*Portulaca oleracea L.*) and *Shewanella putrefaciens* probiotic enriched diet on gilthead seabream (*Sparus aurata L.*)". Masters in Aquaculture and Fisheries. Universidade do Algarve, 2017.

João Paulo Ribeiro Proença Santana. "Optimization of a sperm cryopreservation protocol for spotted wolfish (*Anarhichas minor Olafsen, 1772*)". Masters in Aquaculture and Fisheries. Universidade do Algarve, 2017.

André Filipe Gonçalves Barreto "Towards an early weaning in Senegalese sole (*Solea Senegalensis Kaup, 1858*)". Masters in Aquaculture and Fisheries. Universidade do Algarve, 2017.

Sofia Isabel Martins Viegas "Effects of a fast growth microdiet on larval development of gilthead seabream (*Sparus aurata, Linnaeus, 1758*) and meagre (*Argyrosomus regius, Asso, 1801*)". Masters in Aquaculture and Fisheries. Universidade do Algarve, 2017.

Renata Fleck Pontes dos Santos "ENHANCEMENT OF SPERMIATION IN MEAGRE (*Argyrosomus regius*) USING TWO ADMINISTRATION METHODS OF GnRH α ". Masters in Aquaculture and Fisheries. Universidade do Algarve, 2017.

Luís Miguel Simão Madeira "Reutilização de águas resultantes da produção de explosivos: caso de estudo "Empresa X". Masters in Environmental Engineering – Universidade do Algarve. 2016.

Henrique Manuel Mate Carvalho "Production of biofuels from microalgal biomass". Masters in Environmental Engineering – Universidade do Algarve. 2016.

Cláudia Sofia Ferreira Raposo. **“Effect of EDTA enriched diets on farmed fish allergenicity; a proteomics approach.”** Masters in Aquaculture and Fisheries. Universidade do Algarve, 2016.

Filipa Alexandra Marracho Diniz **“Propriedades sensoriais, características texturais e perfil nutricional de tainha de cultivo e selvagem”**. Masters in Aquaculture and Fisheries – Universidade do Algarve. 2016.

Patrícia Alexandre Fernandes Mestre **“Valorização Biológica de Resíduos Orgânicos”**. Masters in Environmental Engineering – Universidade do Algarve. 2016.

Joana Maria Teixeira de Moura **“Study of the expression of diferente genes of long-chain polyunsaturated fatty acids (LC-PUFA) metabolismo during the early paralarval development of the common octopus (Octopus vulgaris)”**. Masters in Aquaculture and Fisheries – Universidade do Algarve. 2015.

Márcio Júlio Vicente Moreira **“Contamination of farmed gilthead sea bream (Sparus aurata, Linnaeus, 1758) by the parasite Amyloodinium ocellatum – A proteomic approach”**. Masters in Aquaculture and Fisheries – Universidade do Algarve. 2015.

Martim Ramos Chaves Lopes Magro **“Effect of temperature on embryonic development, larval viability and biomarkers in the first stages of life of Octopus vulgaris (Cuvier, 1797)”**. Masters in Aquaculture and Fisheries – Universidade do Algarve. 2015.

Francisca Félix de Azeredo Pinto e Melo **“ Development and standardization of a protocolo for sperm cryopreservation of two importante comercial oyster species”**. Masters in Aquaculture and Fisheries – Universidade do Algarve. 2015.

João Miguel Sousa Viegas **“Modelação do balanço hídrico do sistema aquífero da Campina de Faro”**. Masters in Environmental Engineering – Universidade do Algarve. 2015.

António Manuel Marques Góis **“Modelação de cenários de exploração no sistema aquífero de Luz-Tavira”**. Masters in Environmental Engineering – Universidade do Algarve. 2015.

Lourenço de Oliveira Coelho e Ramos Pinto. **“Effects of dietary creatine supplementation on muscle growth in gilthead seabream (Sparus aurata).”** Masters in Marine Sciences. University of Porto/University of Algarve. 2015.

Sara Margarida Soares Correia Barreto **“Aplicação de modelo matemático em sistema de lamas ativadas na estação de tratamento de águas residuais de albufeira poente”**. Masters in Environmental Engineering – Universidade do Algarve. 2015.

Ricardo Miguel Santos Henrique **“Gestão de resíduos de construção e demolição em Loulé (Algarve)”**. Masters in Environmental Engineering – Universidade do Algarve. 2015.

Mónica Isabel Botas Barbeiro **“Inclusão da microalga (*Phaedactylum tricornutum*) em rações de acabamento para dourada: efeito na pigmentação e outros atributos da qualidade”**. Masters in Aquaculture and Fisheries – Universidade do Algarve. 2015.

André Tiago Carvalhal Silva Ferreira **“Crescimento e qualidade microbiológica das ostras produzidas em cultivos multitróficos versus monocultivos”**. Masters in Aquaculture and Fisheries – Universidade do Algarve. 2015.

Tânia Margarida Lourenço de Abreu **“Ciclo zooplanctónico em tanques de terra usados para aquacultura de peixes marinhos em sistema multitrófico integrado (IMTA)”**. Masters in Aquaculture and Fisheries – Universidade do Algarve. 2015.

Vitor Manuel Lopes Mendes, **“Montagem de um sistema laboratorial de células de comestível microbianas para aproveitamento energético e tratamento de efluentes domésticos.”** Masters in environmental engineering - Universidade do Algarve. 2013.

Adélia Cristina Bravo Brito de Abreu Ova. **“A microbiota intestinal de doentes jovens com diabetes Mellitus tipo 1: uma abordagem proteómica e metabolómica”**. Masters in biological sciences - Universidade do Algarve. 2013.

Denise Schrama. **“*Listeria monocytogenes* em condições de simulação do sistema intestinal e a infecção no modelo *Galleria mellonella*.”** Masters in molecular and microbiane biology. - Universidade do Algarve. 2012.

Sofia Cavaco, **“Purification and characterization of Gla proteins in fish and mammal models”**. Masters in molecular and microbiane biology, University of Algarve. 2010.

Márcio Filipe Simão, **“Identification and characterization of two Ferritin Isoforms from the clam *R. decussates* and evaluation of some of its biological properties”**. Masters in molecular and microbiane biology, University of Algarve. 2010.

Ricardo Alves, **“Proteomic identification of molecular welfare biomarkers during gilthead cultivation (*Sparus aurata*, Linnaeus 1758)”**. Masters in Marine Biology. Universidade do Algarve. 2008.

Degree thesis

Diego Gerini, **“Gla-Rich-Protein (GRP): a novel vitamin K-dependent protein, with potential to interfere with the dynamics of basic-calcium phosphate (BCP) crystals formation”**. Degree in Biochemistry. Universidade do Algarve. 2015.

Stephany Martins, **“Modificação Química de Álcoois Terpénicos Naturais.”** Degree in Biotechnology. Universidade do Algarve. 2011.

Daniel Oliveira, “**Identification and characterization of water matrix soluble proteins from oyster nacre *Crassostrea gigas***”. Degree in Biochemistry, Universidade do Algarve. 2009.

Andreia Alves, “**Comparative study for fat extraction methods in fish products**”. Degree in Marine biology and fisheries, IPIMAR, Universidade do Algarve. 2002.