

Curriculum Vitae

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In Brief

Rita F. Patarra has a biology degree (specialization in Biotechnology) from University of Azores (PT), with a Master's in Marine Sciences - Marine Resources from Instituto de Ciências Biomédicas de Abel Salazar, University of Porto (PT). She is an expert in seaweed cultivation and physiology and recently finished a PhD in Biology at the University of the Azores (PT) in association with I-MAR Center (CL) and ALGA+ company (PT), with the project: "Opportunities for Seaweed Aquaculture Development in the Azores" (Ref.^a M3.1.2/F/024/2011, DRCT).

Since 2018 Rita is working at Expolab – Ciência Viva Science Centre with a science and technology management fellowship (funded by Fundação para a Ciência e a Tecnologia), where she works in the management of science, technology and innovation programs and as science communication educator.

Skills

Combined 15 years' work experience:

Researcher (seaweed cultivation, ecophysiology, nutritional and pharmacological potential)

Project management R&D and proposal writing

Industrial property (GAPI Açores)

Science communication and non-formal educational activities

Event management and delivery (conferences, workshops, seminars, stakeholders meetings)

Food quality control (HACCP) consultancy

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Curriculum Vitae

1. Personal data

Full name: Ana Rita Ferreira Patarra

Personal address: Rua do Negrão, n. º 28, 9500-334 Ponta Delgada, Açores, Portugal

Birth place and date: Setúbal 10-04-1980

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Nationality: Portuguese

2. Academic Degrees

2018 PhD Biology, Seaweed Cultivation. University of Azores (PT) and University of Los Lagos (CL)

2008 MSc Marine Sciences - Marine Resources, specialization in Marine Biology. Instituto de Ciências Biomédicas de Abel Salazar (ICBAS), University of Porto, Porto (PT)

2003 Degree Biology, specialization in biotechnology. University of Azores, Azores (PT)

3. Affiliations

2019 - 2022: International Seaweed Association (ISA)

2015 - 2018: International Society for Applied Phycology (ISAP) - Student member

2018 - present: Centre for Ecology, Evolution and Environmental Changes (cE3c), Azorean Biodiversity Group (ABG), University of Azores – External collaborator

2015 - 2017: cE3c/AGB, University of Azores - Student Member

2012 - 2015: Centre of Research in Natural Resources (CIRN-DB), University of Azores

2011 - 2015: Aquatic Insular Research Laboratory of Interdisciplinary Centre of Marine and Environmental Research (LAIR-CIIMAR), University of Porto

2009 - 2015: Interdisciplinary Centre of Marine and Environmental Research

2007 - 2009: Marine biologist collaborator at Marine Biology Group and CIRN, Biology Department, University of the Azores

4. Domain of expertise

Marine phycology; seaweed cultivation, ecophysiology, ecology, nutritional and pharmacological potential; industrial property; project management R&D; science communication and food quality control (HACCP) consultancy

5. Personal skills and competences

Mother language: Portuguese

Other languages: **English** (Excellent reading, good writing and oral skills)

Spanish (Excellent reading, basic oral skills, basic writing)

French (Basic reading, writing and oral skills)

Computer skills and competences: excellent command of Office suite, Google suite, SigmaPlot, EndNote, Adobe Acrobat Professional. Good command of Photoshop and statistical programs (GMAV5 for windows, Primer V6).

Driving licence: L – 1849900 7 | **CMAS diver license (P1):** Clube Naval Vila Franca do Campo

6. Awards

2017: Best Poster Award in "Frontiers in E3: 3rd Annual Meeting 2017". Poster title: Bioremediation efficiency of the brown seaweed *Halopteris scoparia* in a land-based IMTA system. 5-6 Jun, Ponta Delgada, Azores.

2010: 4th Prize of 2010 Edition of the Regional Entrepreneurship Competition, organized by the Regional Secretariat of Economy with the project entitled "GEOMARTEC - production of marine organisms in intensive polyculture systems in tanks heated using geothermic energy". Ponta Delgada, Azores.

7. Grants and Scholarships

2019: Scholarship for the participation in scientific meetings (ref. ^ª M3.3.A/PART.R.C./026/2019/RTF/004, DRCT). 23rd International Seaweed Symposium (ISS 2019). Jeju, South Korea. Apr 28th to May 3rd. ~2187€

2018: Scholarship for the participation in scientific meetings (ref. ^ª M3.3.A/PART.R.C./002/2018, DRCT). "Lessons from Two High CO₂ Worlds – future oceans and intensive aquaculture" symposium. NONAGON, Lagoa, Azores. Apr 10-12. ~258€

2016: EcoAqua Summer School 2016: Advanced Course on marine algae culture: techniques, uses and development perspectives. International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM), Mediterranean Agronomic Institute of Zaragoza (IAMZ) and University of Las Palmas de Gran Canaria (ULPGC), Canary Islands, Spain. Scholarship supported by CIHEAM and EcoAqua ERA Chair project. Jun, 13-17.

2015: EcoAqua Summer School 2015: Ecosystem approach to aquaculture and advances in sustainable aquaculture procedures. ULPGC, Canary Islands, Spain. Scholarship supported by EcoAqua ERA Chair project. Oct 26-29.

Nov 2012 - Feb 2017: PhD grant student (M3.1.2/F/024/2011), funded by Fundo Regional para a Ciência e Tecnologia (FRCT). ~ 55680€

2009: Scholarship for the participation in scientific meetings (ref. ^ª M3.2.1/I/112/2009, DRCTC). 7th Asia-Pacific Conference on Algal Biotechnology. New Delhi, India. Dec 1-4. ~1750€

2008: Scholarship for the participation in scientific meetings (ref. ^ª M3.2.1/I/020/2008, DRCT). 11th International Conference on Applied Phycology, Galway, Ireland. Jun 21-27. ~1250€

Mar 2008 - Jan 2010: Grant student at DB-UAc, within the project "CAMAG - Ecological quality of coastal waters of São Miguel, Santa Maria Islands and Terceira Islands and transitional waters of São Jorge Island. (PS-CONTRATOS EXCEPCIONADOS/2008)", funded by Direção Regional de Ordenamento do Território e Recursos Hídricos (DROTRH). ~28600€

Oct 2003 - Dec 2004: Scholarship programme “Estagiar L” (Governo Regional dos Açores) awarded by SGS (Société Générale de Surveillance), Portugal, S.A. Ponta Delgada, Azores. ~10500€

8. Previous and current scientific and/or professional activities

Since Feb 2018: Science and Technology Management Fellowship (BGCT), ref. SFRH/BGCT/135478/2018, funded by Fundação para a Ciência e a Tecnologia, IP (FCT), under the coordination of Dr. Susana Cabral. Centro de Ciência Viva – Expolab, Azores, Portugal.

Main activities/responsibilities: management of science, technology and innovation programmes and science communication educator.

Nov 2012 – Dec 2017: PhD grant student at University of the Azores – Opportunities for Seaweed Aquaculture Development in the Azores (M3.1.2/F/024/2011). Funded by FRCT under the coordination of Prof. Dr. (s) Ana I. Neto and Alejandro H. Buschmann, and Dr. Maria H. Abreu.

Thesis main outputs: investigation of (i) the effect of nitrogen limitation on the in vitro growth of *Macrocystis pyrifera* juveniles; (ii) the cultivation potential of *Pterocladia capillacea*, and *Halopteris scoparia*, two commercial and ecologically important species of the Azorean algal flora; and (iii) the potential of *H. scoparia* as a biofilter component in a pilot-scale Integrated Multi-Trophic (IMTA) land-based system. Throughout the thesis, laboratory and outdoor trials were developed to explore the physiological responses of the investigated species to selected abiotic factors.

Sep 2010 - Sep 2012: Coordinator of the Industrial Property Promotion Unit of Universidade dos Açores (GAPI Açores) and project manager assistant at Support Office for Research and Technological and Experimental Development (GAIDET) of Universidade dos Açores. Portugal.

Main activities/responsibilities: GAPI Açores: i) providing clarifications of the rules that govern the different types of Industrial Property, in terms of technical requirements, administrative demands and costs; ii) providing information about the legal status of Industrial Property rights; iii) building awareness and providing information about Industrial Property in the context of product and industry sectors, etc. GAIDET: management of science, technology and innovation projects, namely: typology PCT-MAC, FCT, DRCT and CET.

May - Set 2010: Consultant at Direção Regional de Ciência Tecnologia e Equipamentos (DRCT). Ponta Delgada, Azores.

Main activities/responsibilities: Production of scientific contents on general biology to use in digital information boards to implement at several regional airports (Corvo, Flores, S. Jorge, Graciosa and S Maria Islands).

Jan - May 2010: Instructor at Open University, CLA (Local Learning Centre) of Ribeira Grande. Teatro Ribeiragrاندense, Ribeira Grande, Azores, Portugal.

Main activities/responsibilities: Management of classroom tests.

Mar 2008 - Jan 2010: Marine Biologist. Grant student at the University of Azores – Biology Department within the project “CAMAG - Ecological quality of coastal waters of S. Miguel, Santa Maria Islands and Terceira Islands and transitional waters of S. Jorge Island (PS-CONTRATOS EXCEPCIONADOS/2008) Funded by Direção Regional de Ordenamento do Território e Recursos Hídricos (DROTRH).

Main activities/responsibilities: Coastal waters quality evaluation of S. Miguel, S. Maria and Terceira Islands and transitional waters of S. Jorge Island, applying the Water Framework Directive (WFD). Fieldwork: i) quantitative and qualitative sampling of intertidal and subtidal macroalgae; ii) salinity, pH, dissolved oxygen and temperature of seawater; iv) transparency and water sampling to perform analysis to phytoplankton and nutrients. Laboratory work: i) samples identification; ii) macroalgae taxonomic identification; iii) phytoplankton analysis. General: i) preparation of field-sampling surveys and missions; ii) data treatment and analysis; iii) writing of the scientific technical reports; iv) project management support.

Mar - Jun 2007: Instructor for SOCIO SISTEMAS, Lda. Lisboa, Portugal.

Main activities/responsibilities: Instructor on “Integrated Systems of Used Oil Management - Sogilub” at Eastern group (Santa Maria Island), Central group (Terceira, Graciosa, São Jorge, Pico and Faial Islands) and Western (Flores Island) of Azores Archipelago (296 h).

Jan 2007 – Jan 2008: Master student at Marine Biology Group, Biology Department, University of the Azores, Ponta Delgada, under the responsibility of Prof. Dr. Ana I. Neto.

Main activities/responsibilities: Developing a project on “Fatty acid composition of select Azorean seaweeds” under the responsibility of Prof. Dr. (s) Ana I. Neto and José Baptista.

Feb - May 2006: Marine biologist at Biological Engineering Department, University of Minho. Campus de Gualtar, Braga, Portugal.

Main activities/responsibilities: Treatment and analysis of information on eutrophication of the major São Miguel Island lakes. The final goal was to produce a technical-scientific book.

Oct 2004 - Oct 2005: Secretariat of the “Masters on Environment, Health and Security, MASS” at DB-UAc. Ponta Delgada, Azores, Portugal.

Main activities/responsibilities: Logistic support of MASS.

Oct 2003 - Dec 2004: Food Quality Consultant (Trainee) at SGS (Société Générale de Surveillance) Portugal, S.A. Ponta Delgada. *Estagiar L* Programme. Governo Regional dos Açores.

Main activities/responsibilities: Food quality control and reporting. Organization and logistic support of several events. Logistic support Masters in “Environmental, Health and Security”.

Sep 2002 – Jul 2003: Marine biologist student (trainee - final thesis in biology) under the coordination of Dr. Amparo Gonçalves and Prof. Dr. Nelson Simões at INIAP/IPIMAR, Lisboa.

Main activities/responsibilities: Evaluation of *Sparus aurata* quality using physical (pH value, sensorial evaluation, gas composition of the packages), microbiologic and biochemical analysis (total viable counts, measure of total volatile nitrogen, amino acids, biogenic amines and nucleotides using HPLC technique).

9. Training

9.1. Macroalgae cultivation and ecosystem services

2016: EcoAqua Summer School 2016: Advanced Course on marine algae culture: techniques, uses and development perspectives. International Centre for Advanced Mediterranean Agronomic

Studies (CIHEAM), Mediterranean Agronomic Institute of Zaragoza (IAMZ) and University of Las Palmas de Gran Canaria (ULPGC), Canary Islands, Spain. Jun, 13-17.

2015: EcoAqua Summer School 2015: Ecosystem approach to aquaculture and Advances in Sustainable Aquaculture procedures. ULPGC, Canary Islands, Spain. Oct, 26-29.

2015: Internship in seaweed outdoor cultivation at the Company ALGAplus, Lda, Ílhavo, Portugal. Supervisors: Drs. Maria H. Abreu and Rui Pereira. Apr 27 to Jun 29.

2014: Internship in seaweed in vitro and outdoor cultivation at the Company ALGAplus. Supervisors: Drs. Maria H. Abreu and Rui Pereira. Apr 14 to May 9.

2013: Internship in seaweed in vitro cultivation at i-mar Research Centre of the Universidad de Los Lagos, Puerto Montt, Chile. Supervisor: Dr. Alejandro H. Buschmann. Apr 26 to Jul 25.

2012: Virtual Course on Macroalgae Cultivation (20 hours). Course teacher: Dr. Alejandro Buschmann. Aqua Centre SRL (AqCen) – www.aqcen.com. Urb. Santa Cristina C4-16, Nuevo Chimbote – Chimbote, Perú. Nov 12 to Dec 10.

9.2. Science communication

2019: Environmental and Outdoor Education in Non-formal settings (45 hours). Call 2018 – KA1 – Learning Mobility of Individuals - Staff mobility in adult education. Nicosia, Cyprus. Jul, 8-12.

2019: AzoresBot 2019 - Azorean robotics festival (25 hours). Probot – Associação de Programação e Robótica dos Açores. EBI Roberto Ivens, Ponta Delgada. Jun, 3-5.

2019: EMMERGENCE@Açores (#emergencehachathon). Digital Media Science Communication Hackathon (60 hours). Ribeira Grande, São Miguel, Açores. Apr, 14-18.

2018: Workshop on science communication technics in non-formal educational environments (10 hours). Expolab – Centro Ciência Viva, in collaboration with the Gabinete de Comunicação ITQB NOVA of Universidade Nova de Lisboa and Centro Ciência Viva de Lagos, Lagoa, São Miguel. Oct 29- 30.

2018: Science Communication in museums and science centres. Ciência Viva formative meetings (30 hours). Pavilhão do Conhecimento - Centro Ciência Viva, Lisboa. Sep, 10-12.

9.2. Industrial property

2010: Training internship for GAPI (Industrial Property Promotion Unit) technical staff (30 hours). Instituto Nacional da Propriedade Industrial, Lisboa. Nov, 8-12.

10.3. Food quality control

2004: Quality and Health (12 hours). SGS Portugal S.A., Ponta Delgada, Azores. Jun, 16-18.

2004: HACCP Systems Auditorship (21 hours). SGS Portugal S.A., Ponta Delgada, Azores. Apr, 14-16.

2003: Quality and Validation in the Chemical Laboratory (8 hours). INETI (Instituto Nacional de Engenharia Tecnologia e Inovação, I.P.). Lumiar, Lisboa, Portugal. May 27.

2003: Quality control in chemical analysis, Ref.^a DITVPP/AF – 2003/01 (1h30 hours). INIAP-IPIMAR, Lisboa. May 11.

2003: Liquid Chromatography and the variables that influence the choice of column and the development of methods (4 hours). Soquímica. Lisboa, Portugal. Apr, 4.

9.4. CAP and Entrepreneurship

2010: Training Course on Entrepreneurship (120 + 360 hours). Centro de Empreendedorismo, Departamento de Economia e Gestão, UAc. Ponta Delgada, Azores. Apr 21 to Jun 9.

2005: “Teaching Skills” EU homologated course, nº EDF 4582/2005 DRJEFP (90 hours). Direção Regional da Juventude, Emprego e Formação Profissional – Sistema Nacional de Certificação Nacional.

9.5. Other training

2013: Spanish virtual class (AVE) – Course A1.1 (40 hours). Instituto Cervantes. Rua de Santa Marta, 43F – R/C, 1169-119. Jan 18 to Apr 18.

2004: Quality in Health (12 hours). Jointly organized by SGS Portugal S.A. and UAc. Ponta Delgada. Jun, 16-18.

2003: Metrology - Management and monitoring of measurement equipment (21 hours). SGS Portugal S.A., Ponta Delgada. Nov, 10-12.

10. Organization skills

Scientific events

2012: Organization of "I FÓRUM EMPRESAS E UNIVERSIDADE NOS AÇORES - Uma parceria com futuro". UAc, Ponta Delgada, Azores. 10 speakers, 80 participants. Sep 18.

2008: Co-organization and logistic support of “43th European Marine Biology Symposium”. UAc, Ponta Delgada, Azores. Sep, 8-12.

Dissemination events

2018: Workshop on science communication technics in non-formal educational environments. Expola, in collaboration with the Gabinete de Comunicação ITQB NOVA of Universidade Nova de Lisboa and Centro Ciência Viva de Lagos, Lagoa, São Miguel. Oct 29- 30.

2014: International workshop on the nutritional power of algae. Ciclos de Ciência, CIRN. UAc, Ponta Delgada, Azores. Feb 18.

2013: Conference on Biotechnology: “Seaweed Aquaculture”. Ciclos de Ciência, CIRN. UAc, Ponta Delgada, Azores. Oct 3.

Small courses

2004: Co-organization and logistic support of the “Training Course on “Quality and Health”. SGS Portugal S.A., Ponta Delgada, Azores. Jun, 16-18.

- 2004:** Co-organization and logistic support of “Training Course on “HACCP Systems Auditorship” (21 hours). SGS Portugal S.A., Ponta Delgada, Azores. Apr, 14-16.
- 2003:** Co-organization and logistic support of “Metrology - Management and Monitoring of Equipment Measurement”. SGS Portugal S.A. Ponta Delgada, Azores. Nov, 10-12.
- 2003:** Co-organization and logistic support of “Food Hygiene and Safety Control”. SGS Portugal S.A. Ponta Delgada, Azores. Oct 24.

11. Projects

Participation in projects

- 2019-2021:** CRYPTO – Molecular identification of cryptogenic macroalgae with invasive potential in the Azores” (ACORES- 01-0145-FEDER-000091). Operational Program AÇORES 2020 (85% funds from the ERDF and 15% from ORAA). Awarded by CIBIO - Research Center in Biodiversity and Genetic Resources. Ponta Delgada.
- 2018-2020:** ALIMAR- Acção Lixo Marinho (FA_06_2017_081). Fundo Azul.
- 2018-2020:** Mar Azul: Comunicar para envolver e educar (FA_06_2017_071). Fundo Azul.
- 2013 – 2015:** Carbon and Nitrogen Ecophysiology of Annual Populations of *Macrocystis pyrifera* (Laminariales) in Southern Chile, FONDECYT N.1110845, Chile.
- 2013:** Aqualmprov - Sustainable Aquaculture and Animal Welfare. NORTE-07-0124-FEDER-000038, reference SAESCTN-PII&DT/1/2011.
- Mar 2008 – Jan 2010:** CAMAG - Ecological quality of coastal waters of São Miguel, Santa Maria Islands and Terceira Islands and transitional waters of São Jorge Island. Funding by DROTRH. Marine Biology Section, DB-UAc, Azores.
- Jul. 2007:** PICOBEL - Benthic communities of the coast of the Pico island: characterization and monitoring. Financed by Secretaria Regional do Ambiente e do Mar. Marine Biology Group, DB-UAc, Azores.

Calls applications

- 2019:** PAIP Expolab - Plano de Ação para a Internacionalização e Promoção do Expolab. Operational Program AÇORES 2020 (85% funds from the ERDF and 15% from ORAA). Expolab.
- 2019:** 150 anos da Tabela Periódica dos Elementos (M3.4.B/ORG EVENTOS/050/2019). PRO-SCIENTIA. Expolab.
- 2019:** Ciência com Arte: 3, 2, 1... ALUNAR! (M3.4.B/ORG EVENTOS/087/2019). PRO-SCIENTIA. Expolab.
- 2019:** Science4all - Science awareness activities and partnership for all citizen. H2020-SwafS-01-2019-fisrt-stage, Proposal ID SEP-210526222. 11 partners from 11 countries (FR, BE, FI, ES, UA, EL, PT, RO, DK, CH, BG). Expolab.
- 2018:** Science4all - Science awareness activities and partnership for all citizen. H2020-SwafS-01-2018-second-stage, Proposal ID SEP-210526222. 11 partners from 11 countries (FR, BE, FI, ES, UA, EL, PT, RO, DK, CH, BG). Expolab.

- 2018:** Workshop em Técnicas de Comunicação de Ciência em ambientes educativos não formais (ref. M3.4.B/ORG EVENTOS/090/2018). PRO-SCIENTIA. Expolab.
- 2018:** Science4all - Science awareness activities and partnership for all citizen. H2020-SwafS-01-2018-first-stage, Proposal ID SEP-210526222. 11 partners from 11 countries (FR, BE, FI, ES, UA, EL, PT, RO, DK, CH, BG).
- 2017:** Offshore algae culture structure – ECO-Algae: APA Porto Martins, Terceira; APA's Lote A and B Ribeira Quente; APA Feteira, Faial. AQUAZOR – Aquicultura e Biotecnologias Marinhas dos Açores, S.A.
- 2017:** LAB - ALGAE - Macroalgae reproduction and culture laboratory in São Miguel. AQUAZOR.
- 2016:** NetAlgae2 - Inter-regional network to further promote sustainable development in the marine algal industry. Interreg Atlantic Area, 2016 Call - Phase 2: Project reference EAPA_79/2016. 17 partners from six countries (ES FR GR IR NO PT).
- 2016:** SENSE - European network for the sustainable management of seaweed resources. COST ACTION, proposal reference OC-2016-1-20415. 19 COST Institutions (BE BG HR CY DK FR DE GR IE IL IT NL NO PT SI ES SE TR UK) and six International Partners (BR CA CH MX PH US).
- 2015:** SENSE - Management strategies for the sustainable exploitation of seaweed across Europe. COFASP 2nd Call, ID 1383. 17 partners from seven countries (DK FR GR IT NO PT TR).

Projects management

Ttypologies: H2020, PCT-MAC, FCT, DRCT, DROTRH, CET.

12. Missions

2008 - 2009: Evaluation of the quality of coastal waters of Santa Maria Island, applying the European Water Framework Directive. Marine Biology Group, Biology Department of the University of the Azores. Aug and Oct 2008; Jan and Apr 2009.

Main activities/responsibilities: *Assessing quality parameters required by the WFD: quantitative and qualitative sampling of intertidal and subtidal macroalgae and macro-invertebrates, respectively; dredging of macro-invertebrates; salinity, pH, dissolved oxygen and temperature of seawater; transparency and water sampling to perform analysis to phytoplankton and nutrients.

2008 - 2009: Evaluation of the quality of transitional waters of São Jorge Island, applying the European Water Framework Directive. Marine Biology Group, Biology Department of the University of the Azores. Jul and Oct 2008; Jan and Apr 2009. *Main activities/responsibilities:* *

2008 - 2009: Evaluation of the quality of coastal waters of Terceira Island, applying the European Water Framework Directive. Marine Biology Group, Biology Department of the University of the Azores. Jul and Oct 2008; Jan and Apr 2009. *Main activities/responsibilities:* *

2008 - 2009: Evaluation of the quality of coastal waters of São Miguel Island, applying the European Water Framework Directive. Marine Biology Group, Biology Department of the University of the Azores. May, Aug and Nov 2008; Feb 2009. *Main activities/responsibilities:* *

2007: “Benthic communities of the coast of the Pico island: characterization and monitoring ” under the project PICOBEL, financed by Secretaria Regional do Ambiente e do Mar. Marine Biology Group, Biology Department, University of the Azores. Jun 1 to Aug 3.

Main activities/responsibilities: Fieldwork (seaweeds qualitative sampling). Laboratory work (taxonomic identification of collected seaweeds).

2002: Workshop “Marine Fossils of the Azores: Perspectives for the Future” at Santa Maria Island (7 days). Marine Biology Section, DB-UAc. Ponta Delgada, Azores. Jun, 22-29.

Main activities/responsibilities: Marine fossils and paleogeography - fieldwork.

13. Academic Activities

13.1. Scientific supervising experience

Co-advisor of master projects

Carreiro, Ana Sofia, 2015. Avaliação do potencial de cultivo *in vitro* de *Halopteris scoparia* (Linnaeus) Sauvageau (1903), Heterokontophyta (Paeophyceae). MSc in “Biodiversidade e Biotecnologia Vegetal”, 35pp. Principal Advisor: Doctor Ana Neto.

Lloveras, Anna Armengol, 2014. The influence of light and stocking density on the growth and yield of *Pterocladia capillacea* (S.G.Gmelin) Santelices & Hommersand on *in vitro* cultures. Màster en Ciències del Mar: Oceanografia i Gestió del Medi Marí, 25 pp. Principal Advisor: Doctor Ana Neto.

Co-advisor of Eurodyssée project trainee

Baud, Marine. Identification of macrobenthic fauna inhabiting *Halopteris scoparia* fronds cultivated in an IMTA system. CE3c-GBA and UAc, Ponta Delgada, Azores.

Villalba, Bélen, 2009. Biodiversity and coastal ecology. Marine Biology Group, DB-UAc, Azores.

Camille Fontaine, 2008. Biodiversity and coastal ecology. Marine Biology Group, DB-UAc, Azores.

Co-advisor of ERASMUS project trainee

Solé, Berta Nadal, 2009. Seaweeds as a potential indicator of ecological quality of coastal waters in Azores. Marine Biology Group, DB-UAc, Azores. Degree in Biology Universitat Autònoma de Barcelona.

13.2. Júri

Coelho, Inês, 2016. Determinação do teor de polifenóis e flavonóides totais e da atividade antioxidante em macroalgas edíveis dos Açores. Undergraduate project in Marine Biology, Departamento de Biologia, Universidade dos Açores. 18pp.

Carreiro, Ana Sofia, 2015. Avaliação do potencial de cultivo *in vitro* de *Halopteris scoparia* (Linnaeus) Sauvageau (1903), Heterokontophyta (Paeophyceae). Master in Biodiversity and Plant Biotechnology. Departamento de Biologia, Universidade dos Açores. 64 pp.

Antunes, Mariana Fernandez, 2015. Crescimento e cultura *in vitro* de *Ulva rigida* C. Agardh (Chlorophyceae, Chlorophyta). Undergraduate project in Marine Biology. Departamento de Biologia, Universidade dos Açores. 25 pp.

14. Publications

14.1. Thesis

- Patarra RF**, 2018. Culture studies of economically important seaweeds. Doctoral thesis in Biology. Faculdade de Ciências e Tecnologia, Departamento de Biologia, Universidade dos Açores. viii+157pp, +Appendix.
- Patarra RF**, 2008. Fatty Acids of Selected Azorean Seaweeds. Pesquisa de Ácidos Gordos em Macroalgas Marinhas do litoral dos Açores. Master thesis on Sea Sciences – Marine Resources, specialization in Marine Biology. Instituto de Ciências Biomédicas de Abel Salazar – ICBAS, University of Porto, Portugal. VI + 64 pp.
- Patarra A**, 2003. Evaluation of seabream (*Sparus aurata*) quality. Valorização e qualidade de dourada (*Sparus aurata*) de aquicultura. Honors thesis, University of the Azores, Ponta Delgada. vi + 59 pp.

14.2. Publications in peer review journals

11. **Patarra RF**, Iha C, Pereira L, Neto AI, *in press*. Concise review of biological data on *Pterocliadiella capillacea* (S.G. Gmelin) Santelices & Hommersand. J Appl Phycol. DOI: 10.1007/s10811-019-02009-y
10. **Patarra RF**, Lloveras AA, Carreiro AS, Abreu MH, Buschmann AH, Neto AI (2019) Short term effects of irradiance on the growth of *Pterocliadiella capillacea* (Gelidiales, Rhodophyta). Arquipelago. Life and Marine Sciences 36: 85-94.
9. **Patarra RF**, Carreiro AS, Lloveras AA, Abreu MH, Buschmann AH, Neto AI, 2017. Effects of light, temperature and stocking density on *Halopteris scoparia* growth. J Appl Phycol 29:405-411.
8. Paiva L, Lima E, **Patarra RF**, Neto AI, Baptista J, 2014. Edible Azorean macroalgae as source of rich nutrients with impact on human health. Food Chemistry. Food Chem 164:128-135.
7. Paiva L, Lima E, Baptista J, **Patarra RF**, Neto AI, 2014. Fatty acid composition of *Sargassum* (Fucales, Phaeophyta) species harvested from littoral zone of S. Miguel (Azores). Silva Lusitana, N.º Especial: 245-256.
6. Martins GM, **Patarra RF**, Álvaro NV, Prestes ACL, Neto AI, 2013. Effects of coastal orientation and depth on the distribution of subtidal benthic assemblages. Mar Ecol 34:289-297.
5. **Patarra RF**, Leite J, Pereira R, Baptista J, Neto AI, 2013. Fatty acid composition of selected macrophytes. Nat Product Res 27:665-669.
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14.4. Other national publications

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14.5. Proceedings of symposia

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3. Paiva L, Lima E, Baptista J, **Patarra RF**, Neto AI, 2012. Azorean macroalgae as a food supplement: determination of proteins, fibre, and total of lipids and carbohydrates content. In: *Proceedings of 11º Encontro de Química dos Alimentos - Qualidade dos Alimentos (11EQA)*. Atas (CD-ROM), p. 1-4., Escola Superior de Tecnologia e Gestão, Instituto Politécnico de Bragança, Sep, 16-19. (<http://hdl.handle.net/10400.3/2212>).
2. Gonçalves A, **Patarra A**, Pereira C, Mendes R, Nunes ML, 2003. Effect of active packaging on seabream (*Sparus aurata*) quality. In: *Proceedings of the TAFT 2003 Conference (First Joint Trans-Atlantic Fisheries Technology Conference)*. p. 51-53, published by Icelandic Fisheries Laboratories. Reykjavik-Iceland. Jun, 10-14.
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14.6. Technical reports

6. Neto AI, Brotas V, Azevedo JMN, **Patarra RF**, Álvaro NV, Gameiro C, Prestes ACL, Nogueira EM, 2009. Qualidade de águas costeiras da ilha Terceira (Açores) e proposta de monitorização. Project funded by Direção Regional do Ordenamento do Território e dos Recursos Hídricos (DROTRH). iii+70 pp.+Appendices.
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15. Communications

15.1. Oral communications by invitation

6. **Patarra RF**, Prestes ACL, Neto AI, 2019. Grupo de Biodiversidade dos Açores/Centro de Ecologia, Evolução e Alterações Ambientais. Conferência APAA 2019. Associação Portuguesa de Algologia Aplicada. Novo Terminal de Cruzeiros do Porto de Leixões. Oct, 21-22.
5. **Patarra RF**, Neto AI, 2015. Sustainability, harvesting methods and Invasive algae. Conference on "Seaweed harvesting: sustainability and income generation", promoted by Secretaria Regional do Mar, Ciência e Tecnologia, in partnership with the Associação de Pescadores Graciosenses Santa Cruz da Graciosa, Azores. Jul 29.
4. **Patarra RF**, Buschmann AH, Neto AI, 2014. Opportunities for seaweed aquaculture in the Azores". II Conference "Science in the Azores". Scientific Policy in the Azores 2014-2020: Challenges and Opportunities for the Regional Scientific System. Secretaria Regional da Educação, Ciência e Cultura. Praia da Vitória, Azores. Jun, 13-14.
3. **Patarra RF**, Buschmann AH, Neto AI, 2014. PhD, the idea creation... Days of Biology II - "Acting in Biology". Núcleo de estudantes de Biologia. UAc, Ponta Delgada. Mar 28-29.
2. **Patarra RF**, Prestes I, Neto AI, 2009. Ecological quality of coastal waters in the Azores. Clube Naval de Ponta Delgada, São Miguel, Azores. Jul 29.

1. **Patarra RF**, Leite J, Baptista J, Neto AI, 2008. Fatty acids of selected Azorean seaweeds. TECNOMAR, Exhibition of Marine Technology. Vila do Porto, Santa Maria, Azores. Oct, 24-25.

15.2. Communications at international scientific meetings

Oral communications

10. **Patarra RF**, Carreiro AS, Lloveras AA, Pereira R, Abreu MH, Buschmann AH, Neto AI 2019. Cultivation potential and bioremediation efficiency of the brown seaweed *Halopteris scoparia* (Ochrophyta). 23rd International Seaweed Symposium. Abstract Book, p. 145-146. Jeju, South Korea. Apr 28 to May 3.
9. **Patarra RF**, Abreu MH, Pereira Rui, Buschmann AH, Neto AI 2018. Effects of stocking density and water flow on the growth and bioremediation efficiency of the seaweed *Halopteris scoparia* (Ochrophyta). Lessons from two high CO₂ worlds – Future oceans and intensive aquaculture Symposium. Jointly organized by Society for Experimental Biology and Fundo Regional para a Ciência e Tecnologia. Abstract Book, p. 27, NONAGON - São Miguel Science and Technology, Lagoa, São Miguel. Apr, 10-12.
8. **Patarra RF**, Lloveras AA, Carreiro AS, Abreu MH, Buschmann AH, Neto AI, 2016. Growth responses of *Pterocadiella capillacea* to light and stocking density. Front. Mar. Sci. Conference Abstract: XIX Iberian Symposium on Marine Biology Studies, Porto. Sep, 5-9. DOI: 10.3389/conf.FMARS.2016.05.00075
7. **Patarra RF**, Carreiro A, Lloveras A, Abreu MH, Buschmann AH, Neto AI, 2015. Experimental in vitro cultivation of *Halopteris scoparia* (Heterokontophyta, Phaeophyceae). Aquaculture Europe 2015, Abstract Book p. 606-607, Rotterdam, Netherlands. Oct, 20-23. www.was.org/easonline/Mobile/Paper.aspx?i=4281
6. Lima E, Furtado M, Garcia I, Paiva L, Baptista J, **Patarra RF**, Neto AI, 2012. The surplus value of Azorean macroalgae as health-promoting food. Protein, fibre, carbohydrates, lipids and vitamins determination. BIT Congress Inc.' 1st Annual International Congress of Marine Algae 2012 (AICMA). Abstract Book, p. 19, World Expo Centre, Dalian, China. Sep, 20-23. <http://hdl.handle.net/10400.3/2997>
5. **Patarra RF**, Neto AI, Brotas V, Álvaro NV, Gameiro C, Silva A, Diniz T, Prestes ACL, Azevedo JMN, Medeiros MC, Pacheco DM, Gaspar JL, 2010. Ecological quality of Azorean coastal waters: Macrophytes and phytoplankton evaluation. International Symposium FloraMac2010. Abstract Book, p. 53, Ponta Delgada, Azores. Sep, 23-25. <http://hdl.handle.net/10400.3/1813>
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3. **Patarra RF**, Paiva L, Neto AI, Lima EM, Baptista J, 2009. Protein and fibre of selected Azorean seaweeds. 7th Asia-Pacific Conference on Algal Biotechnology. Abstract Book, p. 37-38, New Delhi, India. Dec, 1-4. <http://hdl.handle.net/10400.3/1780>

2. **Patarra RF**, Leite J, Baptista J, Neto AI, 2008. Fatty acids of selected Azorean seaweeds. Proceedings of 11th International Conference on Applied Phycology. Abstract Book. p. 101-102, National University of Ireland, Galway. Jun, 21-27. <http://hdl.handle.net/10400.3/1783>
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12. **Patarra RF**, Abreu MH, Pereira R, Buschmann AH and Neto AI, 2016. Effect of stocking density and water flow on *Halopteris scoparia* IMTA cultivation. Front. Mar. Sci. Conference Abstract: XIX Iberian Symposium on Marine Biology Studies, Porto. Sep, 5-9. doi: 10.3389/conf.FMARS.2016.05.0021.
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10. Paiva L, Lima E, Baptista J, **Patarra RF**, Neto AI, 2012. Total lipid content, fatty acid profile and nutritional value of selected macroalgae from S. Miguel Island littoral zone. International Symposium FloraMac2012. P23, Abstract Book, p. 78, Funchal, Madeira, Portugal. Sep, 5-8. <http://hdl.handle.net/10400.3/1716>
9. Garrido ER, Paiva L, Lima E, Baptista J, **Patarra RF**, Neto AI, 2012. Characterization and quantification of total carbohydrates of selected macroalgae from S. Miguel littoral zone. International Symposium FloraMac2012. P25, Abstract Book, p. 80, Funchal, Madeira. Sep, 5-8. <http://hdl.handle.net/10400.3/1764>
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7. Wallenstein FM, Neto AI, **Patarra RF**, Prestes ACL, Álvaro NV, Rodrigues AS, Wilkinson M, 2011. An index based on seaweed communities to monitor coastal ecological quality in Macaronesia. 5th European Phycological Congress, Rhodes, Greece. Sep, 4-9. European Journal of Phycology 46, sup1:109-194. <http://dx.doi.org/10.1080/09670262.2011.613163>
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5. Torrontegui O, Martins GM, Garcia SA, Prestes ACL, **Patarra RF**, Álvaro NV, García A, Rosas-Alquicira EF, Neto AI, 2010. The effect of natural vs. artificial substrata on the development of

- benthonic assemblages inside marinas. International Symposium FloraMac2010. P43, Abstract Book, p. 70, Ponta Delgada, Azores. Sep, 23-25. <http://hdl.handle.net/10400.3/1824>
4. Paiva L, **Patarra RF**, Neto AI, Lima EM, Baptista J, 2009. Comparison of free radical scavenging activities of selected Azorean seaweeds. 7th Asia-Pacific Conference on Algal Biotechnology. P69, Abstract Book, p. 109-110, New Delhi, India. Dec, 1-4. <http://hdl.handle.net/10400.3/1732>
 3. **Patarra RF**, Prestes AL, Álvaro NV, Terra MR, Fontaine C, Cámara A, Azevedo JMN, Neto AI, 2008. Coastal water characterization in the Azorean archipelago. 43rd European Marine Biology Symposium. P3.26, Abstract Book p. 108, Ponta Delgada, São Miguel, Azores. Sep, 1-4. <http://hdl.handle.net/10400.3/1748>
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15.3. Communications at national scientific meetings

Oral communications

6. Constância JP, Ruela A, Ferraz C, **Patarra RF**, Cabral S, Gouveia V, 2019. A responsabilidade social dos centros de ciências: a divulgação científica ao serviço de uma cultura para a inclusão. 7^o Congresso da Rede de Comunicação de Ciência e Tecnologia de Portugal– SciComPT- Comunicação de Ciência e Inclusão. Universidade de Aveiro. May, 30-31.
5. **Patarra RF**, Buschmann AH, Neto AI, 2014. Oportunidades para o Desenvolvimento da Aquacultura de Macroalgas nos Açores. II Jornadas “Ciência nos Açores”. A política Científica nos Açores 2014-2020: Desafios e Oportunidades para o Sistema Científico Regional. Secretaria Regional da Educação, Ciência e Cultura. Praia da Vitória, Azores. Jun, 13-14.
4. **Patarra RF**, Leite J, Pereira R, Baptista J, Neto AI, 2014. Composição em ácidos gordos de macroalgas marinhas coletadas nos Açores. Workshop Internacional sobre o Poder Nutricional das Algas. CIRN: Ciclos de Ciência. UAc, Ponta Delgada, Azores. Feb 18.
3. **Patarra RF**, Buschmann AH, Neto AI, 2013. Opportunities for seaweed aquaculture development in the Azores. Jornadas de Biotecnologia “Seaweed Aquaculture”. CIRN: Ciclo de Ciência. UAc, Ponta Delgada, Azores. Oct 3.
2. **Patarra RF**, Leite J, Pereira R, Baptista J, Neto AI, 2013. Fatty acid composition of selected macrophytes. Jornadas de Biotecnologia, PW6. CIRN: Ciclo Ciência 2013. UAc, Ponta Delgada, Azores. Apr 12.
1. **Patarra RF**, Paiva L, Leite J, Lima E, Baptista J, Neto AI, 2011. Biotechnological applications of selected macroalgae. IBBA Strategic Planning - Workshop III, Plant Biotechnology. Ponta Delgada, Azores. Jan 25.

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7. **Patarra RF**, 2014. *In vitro* culture of *Halopteris scoparia* (Heterokontophyta, Phaeophyceae) from Azores: Effects of light and stocking density. Seminário 3Bs – Biodiversidade, Biomedicina, Biotecnologia. Seminário do programa doutoral em Biologia da UAc. UAc, Ponta Delgada, Azores. Jun 16.
6. **Patarra RF**, Buschmann AH, Neto AI, 2013. Opportunities for seaweed aquaculture development in the Azores. Book of abstracts of “Jornadas Ciência nos Açores - que futuro?”. Tema Ciências Exatas e da Engenharia, Poster CEE-P-04, p. 108. FRCT. Ponta Delgada, Azores. Jun, 7-8.
5. Lima E, Baptista J, Medeiros JR, Barreto MC, Neto AI, Paiva L, **Patarra RF**, 2013. A Natureza sob o olhar da Química: Caracterização de novas moléculas ativas isoladas de Produtos Naturais Açorianos. Livro de resumos das Jornadas “Ciência nos Açores - que futuro?”. Tema Ciências da vida e da saúde, Poster CVS-P-02, p.133-134, FRCT. Ponta Delgada, Azores. Jun, 7-8.
4. Paiva L, Lima E, Baptista J, **Patarra RF**, Neto AI, 2012. Azorean macroalgae as a food supplement: determination of proteins, fibre, and total of lipids and carbohydrates content. In: Proceedings of 11^o Encontro de Química dos Alimentos - Qualidade dos Alimentos (11EQA). Abstract Book (CD-ROM), 4 pp., Escola Superior de Tecnologia e Gestão, Instituto Politécnico de Bragança. Sep, 16-19. <http://hdl.handle.net/10400.3/2212>
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16. Public awareness activities**Publications**

4. Patarra RF, 2019. Aquacultura Multi-Trófica Integrada (IMTA) e as macroalgas marinhas. Açores Magazine in Açoriano Oriental Newspaper. Ponta Delgada, Nov. 27, 28-29 pp.
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2. **Patarra RF**, 2014. Cultivo de macroalgas... Que futuro? Açores Magazine in Açoriano Oriental Newspaper. Ponta Delgada, Jan, 19, 28-29 pp.

1. **Patarra RF**, 2013. Algas dos Açores: Do mar para o Prato! Açores Magazine in Açoriano Oriental Newspaper. Ponta Delgada, Nov 17, 26-27 pp.

Oral communications

4. **Patarra RF**, 2016. Dissemination of scientific works developed within the scope of the doctoral project "Culture studies of economically important seaweeds", at the "Open Day of the Department of Biology". UAc. Ponta Delgada, Azores. Mar 17.
3. 3CBIO Biotechnology Group, 2014. A importância biotecnológica das algas. National Scientific Culture Day. ExpoLab, Lagoa, Azores. Nov 21.
2. **Patarra RF**, Buschmann AH, Neto AI, 2013. Opportunities for seaweed aquaculture development in the Azores. Jornadas de Biotecnologia "Seaweed Aquaculture". CIRN: Ciclo de Ciência. UAc, Ponta Delgada, Azores. Oct 3.
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2. **Patarra RF**, Buschmann AH, Neto AI, 2013. Opportunities for seaweed aquaculture development in the Azores. "European Researchers Night". ExpoLab. Lagoa, Azores. Sep 27.

Projects with schools

2. 2009. Study of the antibacterial and antifungal activity *Asparagopsis taxiformis*. Work by students of 12th grade, class A, Secondary School of Lagoa. Academic year 2009-2010. <http://grupo3-12a.blogspot.pt/>
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Other

3. **Patarra RF**, 2016. Dissemination of scientific works developed within the scope of the doctoral project "Culture studies of economically important seaweeds". 40th anniversary of the Biology Department, University of Azores. Ponta Delgada, Nov 24.
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1. **Patarra RF**, 2014. Radio interview *Zona Verde* program. RDP Açores. Ponta Delgada. Aug 8.

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