

# **Curriculum vitae**

Date: 10/09/2017

**Name: Aldo Barreiro Felpeto**  
**Birthdate: 03/05/1979**  
**Nationality: Spanish**

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## CURRENT PROFESSIONAL STATUS

Position: Fellow researcher  
Organism: CIIMAR – Universidade do Porto  
Department: Blue Biotechnology and Ecotoxicology (BBE)  
Address: Terminal de Cruzeiros do Porto de Leixões. Av. General Norton de Matos s/n. 4450-208, Matosinhos (Portugal).

Telephone: +351 22 340 18 05  
e-mail: aldo.barreiro@gmail.com

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## EDUCATION

### Academic degrees

- **April 2007. Ph. D. Thesis.** Universidade de Vigo (Spain), Departament of Ecology and Animal Biology
- **June 2001. Biology.** Universidade de Vigo (Spain).

### Languages (native Spanish and Galician)

Languages	Auditive	Reading	Oral	Written
English	C2	C2	C2	C2
French	C2	C2	C1	C1
Italian	C1	C2	B2	B2
Portuguese	C1	C2	C1	B2
German	A1	A1	A1	A1
Russian	A1	A1	A1	A1

## Courses taken

**October 2012** *Introduction to Meta-Analysis of Biological/Ecological data.*  
Universit  di Bologna (Italy).

**June 2012** *Modelos Mixtos utilizando R.* (mixed models using R)  
GRID[ECMB], Santiago de Compostela (Spain).

**March 2012** *Bayesian Statistics to all Sciences with R.*  
Universidade do Porto (Portugal).

**September 2010** *Introducci n al lenguaje de programaci n estad stico y matem tico R* (Introduction to the statistical and mathematical programming language R).  
Universidade de Vigo (Spain).

**October 2009** *Curso on-line Estat stica aplicada   Biolox a usando software libre* (on-line course on biostatistics with open source software).  
Colexio Oficial de Biol gos de Galicia (Spain).

**2008** *Curso Superior de Din mica de Sistemas* (advanced course on system dynamics)  
Universitat Polit cnica de Catalunya (Spain).

**September 2007** *Introducci n al uso y programaci n del sistema estad stico R* (introduction to statistics and programming with R).  
Universidad de Vigo (Spain).

**Academic course 2006 – 2007** *Creaci n de modelos en Ecolog a y gesti n de Recursos Naturales* (models in ecology and environmental resource management).  
Universitat Polit cnica de Catalunya (Spain).

**November 2002** *Citometr a de flujo y su aplicaci n a la Biolog a Marina* (flow cytometry and its application to marine biology).  
Universidade de Vigo (Spain).

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## RESEARCH

### Fellowships

Position	Institution	Dates
Postdoctoral Fellowship	Portuguese Foundation of Science and Technology	2011 - 2017
Postdoctoral Fellowship	Spanish Ministry of Education	2008 - 2010

	Fulbright commission	
Ph.D. Fellowship	Spanish Ministry of Education	2003-2006
Training - research grant for undergraduate students	Spanish Ministry of Education	2000-2001

## Interests

Plankton Ecology, Algal allelopathy, Harmful Algae, Population Ecology, Chemical Ecology, Dynamic modelling in ecology, Statistical modelling, R programming.

## Specific skills and expertise

Phytoplankton. Zooplankton. Microorganism cultures. Bioassays. R programming. Statistics: General Linear Model and extensions, Linear, Non-linear and Non-parametric Regression, Meta-Analysis, Multivariate statistics (PCA, DA, FA, CC, CCA, Cluster, Multidimensional Scaling, compositional data). Dynamic Models. Flow Cytometry.

## Experience with relevant laboratory equipments

Flow Citometry applied to oceanography and aquaculture. Analysis of phytoplankton pigments by HPLC. Chemostats.

## Collaborators

**Past:** Edna Granéli (Kalmar University, Sweden), Timo Tamminen (Finish Environmental Institute, Finland), Adrianna Ianora (Stazione Zoologica A. Dohrn, Italy), Angelo Fontana (Istituto di Biochimica e Biologia Molecolare, Italy), Jef Huisman (IBED - University of Amsterdam, The Netherlands), África González Fernández (Immunology, Universidade de Vigo, Spain).

**Present:** Vitor Vasconcelos (CIIMAR, Portugal), Cástor Guisande (Universidade de Vigo, Spain), Elsa Vázquez (Universidade de Vigo, Spain), Máximo Frangopoulos (Instituto de Estudios del Cuaternario Fuego-Patagonia, Chile), Nelson G. Hairston (Cornell University, USA), Michael Cortez (Utah University, USA), Shovonlal Roy (University of Reading, UK).

## Research Grants

**2016-2018** Title: Novel marine products with biotechnological applications (NOVELMAR).

Funding Organism: UE - Fundação para a Ciência e a Tecnologia (Portugal).  
Ref: NORTE-01-0145-FEDER-000035  
Tasks performed: Design and performance of laboratory experiments, collaboration in chemical analysis. Statistical consulting and performance of statistical analysis.

**2013-2016** Title: Survey of natural substances from marine organisms with potential pharmacological and ecological applications (MARBIOTECH).  
Funding Organism: UE - Fundação para a Ciência e a tecnologia (Portugal).  
Ref: NORTE-07-0124-FEDER-000047.  
Tasks performed: Design and performance of laboratory experiments, collaboration in chemical analysis. Statistical consulting and performance of statistical analysis.

**2007-2009** Title: Factors structuring fish community in Amazonas river, an integrative approach of community ecology and phylogeny (AMAPEZ).  
Funding Organism: Spanish Ministry of Science, Education and Technology.  
Ref: CGL2006-02155/BOS.  
Tasks performed: Assistance in laboratory experiments and statistical analysis.

**2003-2005** Title: Transfer and Fate of Harmful Algal Bloom Toxins in European Marine Waters (FATE).  
Funding Organism: European Commission. Ref: EVK3 CT-2000 00055.  
Tasks performed: Design and performance of laboratory and field experiments, collaboration in chemical analysis, collaboration in field sampling. Statistical analysis.

**2002-2004** Title: Definition of optimal windows conditioning egg and larval survival in pelagic fishes (SAVOR).  
Funding Organism: Spanish Ministry of Science, Education and Technology.  
Ref: REN2002-04205-C04-01.  
Tasks performed: Assistance in laboratory experiments and statistical analysis.

## Publications in scientific journals

Total cites: 603, H-index: 12, i10-index: 14

**Under elaboration** A meta-analysis of the effect of dinoflagellates of the genus *Alexandrium* on the copepods of the genus *Acartia*: physiological impairment and reproduction on naïve and adapted populations. **A. Barreiro**.

**Under elaboration** Interactions between nutrient stoichiometry and induced defenses determine the fundamental dynamical patterns of a planktonic predator – prey system. **A. Barreiro**, M.L. Cortez, M. Febrero-Bande, N.G. Hairston Jr.

- En revision.** Amino acid composition reveals functional diversity of zooplankton in Colombian lakes related to geography, taxonomy and productivity. Nelson Javier Aranguren-Riaño, Castor Guisande, Jonathan Shurin, Natalie T Jones, **Aldo Barreiro**, Santiago Duque.
- 2017** Allelopathic activity of picocyanobacterium *Synechococcus* sp. on filamentous cyanobacteria. S. Śliwińska-Wilczewska, J. Maculewicz, **A. Barreiro**, V. Vasconcelos, A. Latała. *Journal of Experimental marine Biology and Ecology*. 496: 16-21.
- 2017** Allelopathy prevents competitive exclusion and promotes phytoplankton biodiversity. **A. Barreiro**, S. Roy, V. Vasconcelos. *Oikos*, in press.
- 2016** Bacterial community characterization and biogeochemistry of sediments from a tropical upwelling system (Cabo Frio, Southeastern Brazil). R. Castelo-Branco, **A. Barreiro**, F.S. Silva, S.B.V. Carvalhal-Gomes, L.F. Fontana, J.G. Mendonça-Filho, V. Vasconcelos. *Continental Shelf Research*, 130: 1-13.
- 2016** Allelopathic interactions in phytoplankton population ecology. **A. Barreiro**, V. Vasconcelos. *Journal of Allelochemical Interactions* 2(2): 25-34.
- 2015** New invertebrate vectors of Okadaic Acid from the North Atlantic waters – Portugal (Azores and Madeira) and Morocco. M. Silva, I. Rodríguez, **A. Barreiro**, M. Kauffmann, A. Neto, M. Hassouani, B. Sabour, A. Alfonso, L. Botana, V. Vasconcelos. *Toxins* 7(12): 5337-5347.
- 2015** First report of Ciguatoxins in two starfish species: *Ophidiaster ophidianus* and *Martasteria glacialis*. M. Silva, I. Rodríguez, **A. Barreiro**, M. Kauffmann, A. Neto, M. Hassouani, B. Sabour, A. Alfonso, L. Botana, V. Vasconcelos. *Toxins* 7(9): 3740-3757.
- 2015** Picocyanobacteria from a clade of marine Cyanobium revealed bioactive potential against microalgae, bacteria and marine invertebrates. M.S. Costa, M. Costa, V. Ramos, P.N. Leão, **A. Barreiro**, V. Vasconcelos, R. Martins. *Journal of Toxicology and Environmental Health, Part A: Current Issues* 78(7): 432-442. DOI: 10.1080/15287394.2014.991466.
- 2015** Lettuce (*Lactuca sativa* L.) leaf-proteome profiles after exposure to cylindrospermopsin and a microcystin-LR/cylindrospermopsin mixture: a concentration-dependent response. M. Freitas, A. Campos, J. Azevedo, **A. Barreiro**, S. Planchon, J. Renaut, V. Vasconcelos. *Phytochemistry*, 110: 91-103.
- 2014** Exploring bioactive properties of marine cyanobacteria isolated from the Portuguese coast: high potential as a source of anticancer compounds. M. Costa, M. Garcia, J. Costa-Rodrigues, M.J. Ribeiro, M.H. Fernandes, P. Barros, **A. Barreiro**, V. Vasconcelos, R. Martins. *Marine Drugs*, 12: 98-114.

- 2014** Interactions between allelopathic properties and growth kinetics in four freshwater phytoplankton species studied by model simulations. **A. Barreiro**, V.M. Vasconcelos. *Aquatic Ecology*, 48 (2) 191-205.
- 2014** Comparative responses to metal oxide nanoparticles in marine phytoplankton. A. Castro-Bugallo, A. González-Fernández, C. Guisande, **A. Barreiro**. *Archives of Environmental Contamination and Toxicology* 67(4): 483-493
- 2013** The effects of resource limitation on the allelopathic effect of *Chlamydomonas reinhardtii* on other unicellular freshwater planktonic organisms. **A. Barreiro**, N.G. Hairston Jr. *Journal of Plankton Research*, 35(6): 1339-1344.
- 2013** New invertebrate vectors for PST, Spirolides and Okadaic Acid in the North Atlantic. M. Silva, **A. Barreiro**, P. Rodriguez, P. Otero, J. Azevedo, A. Alfonso, L. Botana, V. Vasconcelos. *Marine Drugs*, 11(6): 1936-1960.
- 2013** Modelling paralytic shellfish toxins (PST) transfer and accumulation in populations of two planktonic grazers. E. Spyrakos, M. Frangópulos, **A. Barreiro**, C. Guisande. *Harmful Algae*, 26: 60-70.
- 2013** Indirect bottom-up control of consumer-resource dynamics: Resource-driven algal quality alters grazer numerical response. **A. Barreiro**, N.G. Hairston Jr. *Limnology & Oceanography*, 58 (3): 827-838.
- 2012** Mixotrophy and the toxicity of *Ochromonas* in a pelagic food web. T. Hiltunen, **A. Barreiro**, N.G. Hairston Jr. *Freshwater Biology*, 57: 2262-2271.
- 2012** Competition for inorganic nutrients among five species of Amazonian phytoplankton in batch culture: Both nitrate and phosphorus account. M. García-Folleco, C. Guisande, A. Acuña, **A. Barreiro**, S.R. Duque. *Current Topics in Plant Biology*, 13: 95-102.
- 2011** Diatom induction of reproductive failure in copepods: The effect of PUAs versus non-volatile oxylipins. **A. Barreiro**, Y. Carotenuto, N. Lamari, F. Esposito, G. D'Ippolito, A. Fontana, G. Romano, A. Ianora, A. Miralto and C. Guisande. *Journal of Experimental Marine Biology and Ecology*, 401: 13 – 19.
- 2010** Generation of monoclonal antibodies for the specific immunodetection of the toxic dinoflagellate *Alexandrium minutum* Halim from Spanish waters. Carrera, M., Garet, E., **Barreiro, A.**, Garces, E., Perez, D., Guisande, C., Gonzalez-Fernandez, A. *Harmful Algae*, 9:272 – 280.
- 2009** Evaluation of the production of Paralytic Shellfish Poisoning toxins by extracellular bacteria isolated from the toxic Dinoflagellate *Alexandrium minutum*. Prol Garcia M.J., Guisande C., **Barreiro A.**, Miguez B., de la Iglesia P., Villar A., Gago-Martinez A., Combarro M.P. *Canadian Journal of Microbiology*, 55:943-954.

- 2008** Testing of the CHEMTAX program in contrasting Neotropical lakes, lagoons and swamps. Guisande C., **Barreiro A.**, Acuña A., Marciales L.J., Hernández E., Torres A.M., Aranguren N., López W., Duque S.R., Gallo L.G., Aguirre N., Mogollón M., Palacio J., Rueda G. *Limnology and oceanography: Methods*, 6: 643-652.
- 2008** Factors responsible for the differences in satellite-based chlorophyll a concentration among the major global upwelling areas. Patti B, Guisande C, Vergara AR, Riveiro I, Maneiro I, **Barreiro, A.**, Bonanno A, Buscaino G, Cuttitta A, Basilone G, Mazzola S. *Estuarine, Coastal and Shelf Science*, 76: 775-786.
- 2007** Zooplankton interactions with toxic phytoplankton: some implications for food web studies and algal defences strategies of feeding selectivity behaviour, toxin – dilution and phytoplankton populations diversity. **Barreiro A.**, Guisande C., Maneiro I., Vergara A.R., Riveiro I. & Iglesias P. *Acta Oecologica*, 32: 279-290.
- 2006** Feeding strategies of the copepod *Acartia clausi* upon sole and mixed diets of toxic and non-toxic strains of the dinoflagellate *Alexandrium minutum*. **Barreiro A.**, Guisande C., Frangópulos M., González – Fernández A., Muñoz S., Pérez D., Magadán S., Maneiro I., Riveiro I. & Iglesias P. *Marine Ecology Progress Series*, 316: 115-125.
- 2006** Release and Degradation of Amnesic Shellfish Poison from Decaying *Pseudonitzschia multiseries* in presence of Bacteria and Organic matter. Hägstrom J., Granéli E., Maneiro I., **Barreiro A.**, Petermann A. & Svensen C. *Harmful Algae*, 6: 175-188.
- 2005** Fate of Domoic acid ingested by the copepod *Acartia clausi*. Maneiro I., Iglesias P., Guisande C., Riveiro I., **Barreiro A.**, Zervoudaki S., & Granéli E. *Marine Biology*, 148: 123-130.
- 2005** Relative importance of the different negative effects of the toxic haptophyte *Prymnesium parvum* on *Rhodomonas salina* and *Brachionus plicatilis*. **Barreiro A.**, Guisande C., Maneiro I., Lien T.P., Legrand C., Tamminen T., Sirpa Lehtinen, Uroneen P. & Granéli E. *Aquatic Microbial Ecology*, 38: 259-267.
- 2002** Estimation of copepod trophic-niche in the field using amino acids and marker pigments. Guisande C, Maneiro I., Riveiro I., **Barreiro A.** & Pazos Y. *Marine Ecology Progress Series*, 239: 147-156.

## Books



- 2011** Tratamiento de datos con R, SPSS y Estadística. (Data analysis with R, SPSS and STATISTICA). *Editorial Díaz de Santos (Madrid)*. Guisande C., Vaamonde A., **Barreiro A.** ISBN: 978-84-7978-998-5.
- 2006** Tratamiento de Datos. (Data analysis) *Editorial Diaz de Santos (Madrid)*. Guisande C., **Barreiro A.**, Maneiro I., Riveiro I., Vergara A., Vaamonde A. ISBN: 978-84-7978-736-3.

## Software

- 2016** Software estadístico y matemático R: paquete *StatR*. Autores: C. Guisande, A. Vaamonde, **A. Barreiro**.  
<http://www.ipez.es/RWizard/Downloads/Applications/Setup/StatR-manual.pdf>

## Stays in foreign institutions

- 2011-2017** Institution: CIIMAR/Universidade do Porto, Porto (Portugal).  
Duration: 72 months.  
Issue: Cyanobacterial ecology.
- 2014** Institution: University of Reading, Reading (UK).  
Duration: 2 weeks.  
Issue: Modelization of allelopathic interactions in phytoplankton.
- 2010** Institution: Universidad de Lagos, Puerto Montt (Chile).  
Duration: 2 weeks.  
Issue: Interactions between toxic dinoflagellates and mesozooplankton.
- 2008-2010** Institution: Department of Ecology and Evolution. Cornell University. Ithaca, New York, (USA).  
Duration: 24 months.  
Issue: Plankton population dynamics.
- 2006** Institution: Institute for Biodiversity and Ecosystem Dynamics (IBED), University of Amsterdam. Amsterdam (The Netherlands).  
Duration: 3 months.  
Issue: Interspecific competition for nutrients and light between phytoplankton species in chemostats experiments.
- 2005** Institution: Stazione Zoologica "A. Dohrn". Napoli (Italy).  
Duration: 2.5 months.  
Issue: Effects of diatom inhibitory compounds on copepod reproduction.
- 2002** Institution: Kalmar University. Kalmar (Sweden).  
Duration: 2 weeks.  
Issue: Interactions toxic cyanobacteria - mesozooplankton.

**2002** Institution: Tvärminne Zoological Station. Hanko (Finland).  
Duration: 2 weeks.  
Issue: Interactions *Prymnesium parvum* - microzooplankton.

## Contributions in scientific meetings and congresses

### 2017

Authors: **Aldo Barreiro**, Shovonlal Roy, Vitor Vasconcelos.  
Title: Allelopathy drives species coexistence in phytoplankton microcosms.  
Kind of presentation: Oral.  
Congress: Ecological Society of America, Portland (USA).

### 2017

Authors: **Aldo Barreiro**, Shovonlal Roy, Catarina Campos-Ferreira, Vitor Vasconcelos.  
Title: From resources to population dynamics: a two-species competitive system driven by allelopathy.  
Kind of presentation: Oral.  
Congress: World Allelopathy Congress, Marseille (France).

### 2017

Authors: **Aldo Barreiro**, Catarina Campos-Ferreira, Angela Quintero, Vitor Vasconcelos.  
Title: Unknown allelopathic compound from the chlorophyte *Ankistrodesmus falcatus* with inhibitory effect against the cyanobacteria *Microcystis aeruginosa*.  
Kind of presentation: Oral.  
Congress: World Allelopathy Congress, Marseille (France).

### 2016

Authors: João Morais, Vitor Ramos, Raquel Castelo-Branco, **Aldo Barreiro**, Vitor Vasconcelos.  
Title: Testing and improving simple cryopreservation methods for biotechnological-important cyanobacterial strains from a culture collection.  
Kind of presentation: Poster.  
Congress: Congreso Iberoamericano de biotecnología. BIO.IBEROAMÉRICA. Salamanca (Spain).

### 2016

Authors: A. Hernández-Otero, **A. Barreiro**, G. Macho, E. Vázquez.  
Title: Growth of the sword razor (*Ensis magnus*) early stages: modelling juvenile seasonal growth.  
Kind of presentation: Comunicación oral.  
Congress: XIX Iberian Symposium on Marine Biology Studies, Oporto (Portugal).

### 2016

Authors: Vitor Vasconcelos, Ines Rodriguez, **Aldo Barreiro**, Manfred Kaufmann, Ana Neto, Meryem Hassouaini, Brahim Sabour, Amparo Alfonso, Luis Botana, Marisa Silva.

Title: New invertebrate vectors for legislated phycotoxins and emergent ones in the North Atlantic, should monitoring practices be revised?

Kind of presentation: Poster.

Congress: The 17<sup>th</sup> International conference on Harmful Algae. Florianópolis (Brasil).

#### **2014**

Authors: Mafalda Baptista, Marisa Silva, **Aldo Barreiro**, Paula Rodriguez, Paz Otero, Joana Azevedo, Amparo Alfonso, Luis M. Botana and Vitor Vasconcelos.

Title: Emergent marine toxins in the temperate north Atlantic coast.

Kind of presentation: Conference proceedings.

Congress: ICES Annual Science Conference 2014, A Coruña (Spain).

#### **2014**

Authors: **Aldo Barreiro**, Shovonlal Roy, Vitor Vasconcelos.

Title: Allelopathy drives species coexistence.

Kind of presentation: Plenary speaker.

Congress: 7<sup>th</sup> World Allelopathy Congress. Vigo (Spain).

#### **2013**

Authors: Marisa Silva, **Aldo Barreiro**, Paula Rodriguez, Paz Otero, Joana Azevedo, Amparo Alfonso, Luis M. Botana, Vitor Vasconcelos.

Title: New Vectors of TTX, PST, OA and SPX in Temperate waters of the Atlantic Ocean: A Challenge for Monitoring Programs and Legislation.

Kind of presentation: Oral.

Congress: 40<sup>th</sup> CIESM Congress. Marsella (France).

#### **2012**

Authors: **Aldo Barreiro**, Nelson G. Hairston Jr., Manuel Febrero-Bande.

Title: Contrasting effects of different nitrogen-to-phosphorus stoichiometry in consumer-resource dynamics.

Kind of presentation: Oral.

Congress: Ecological Society of America 97<sup>th</sup> meeting. Oregon (USA).

#### **2012**

Authors: Marisa Silva, **Aldo Barreiro**, Paula Rodriguez, Paz Otero, Joana Azevedo, Amparo Alfonso, Luis M. Botana, Vitor Vasconcelos.

Title: New Vectors of PSP, Spirolides and Okadaic Acid in the north Atlantic: implications and impacts in marine ecosystems.

Kind of presentation: Oral.

Congress: 6th SETAC world congress 2012/ SETAC Europe 22nd Annual meeting, Berlin (Germany).

#### **2010**

Authors: Teppo Hiltunen, **Aldo Barreiro-Felpeto** and Nelson G. Hairston Jr.

Title: Toxic effects of the Chrysophycean *Ochromonas sp.* on freshwater plankton.

Kind of presentation: Póster.

Congress: International Society for microbial Ecology ISME, Seattle (USA).

## 2007

Authors: Álvarez P, Cotano U, Valencia V, Aguilera B, Moli B, Olivar MP, Palomera I, Rubiés P, Sabatés A, Salat J, Rodríguez JM, González-Pola C, Cortés D, García A, Giráldez A, Ramírez T, Alemany F, Álvarez F, Álvarez I, Villate F, Intxausti L, Guisande C, Riveiro I, Maneiro I, Vergara AR, **Barreiro A**.

Title: SAVOR project: Definition of the optimal environmental windows that limit egg and larval survival of pelagic fish species in spawning areas with highly contrasted habitat conditions in the Iberian Peninsula.

Kind of presentation: Póster.

Congress: 29<sup>th</sup> Annual larval fish conference, Barcelona (Spain).

## 2007

Authors: Nadia Lamari, Aldo Barreiro, Giuliana d'Ippolito, Adele Cutignano, Giovanna Romano, Adrianna Ianora, Antonio Miralto, Guido Cimino and Angelo Fontana.

Title: Correlation between the lipoxigenase activity of diatoms and the reproductive failure of their grazers.

Kind of presentation: Póster.

Congress: European Conference on Marine Natural Products (ECMNP). Ischia (Italy).

## 2005

Authors: Reizopoulou S., Strogyloudi E., Giannakourou A., Varkitzi I., Petermann A., Ramil F., **Barreiro A.**, Graneli E. & K. Pagou.

Title: Domoic acid detection in various functional groups of the benthic food web in Ría de Vigo, Spain.

Kind of presentation: Póster.

Congress: ASLO summer meeting 2005. Santiago de Compostela (Spain).

## 2004

Authors: C. Guisande, **A. Barreiro**, M. Frangopoulos, I. Maneiro, I. Riveiro & P. Iglesias.

Title: Kin selection in endotoxin producers?

Kind of presentation: Póster.

Congress: IX HAB 2004. Cape Town (Republic of South Africa).

## 2004

Authors: C. Crespo González, **A. Barreiro**, C. Guisande, R. Iglesias, J.M. Estévez.

Title: Presence of *Coccomyxa parasitica* (Chlorophyta: Chlorococcales) in mussels (*Mytilus galloprovincialis*) of Vigo estuary (Galicia, NW Spain).

Kind of presentation: Póster.

Congress: IX European Multicolloquium of Parasitology. Valencia (Spain).

## 2003

Authors: **A. Barreiro**, C. Guisande, I. Maneiro, T.P. Lien, C. Legrand, T. Tamminen & E. Granéli.

Title: Direct and indirect effects of the haptophyte *Prymnesium parvum* on zooplankton.

Kind of presentation: Póster.

Congress: EuroHAB 2003. Amsterdam (The Netherlands).

## Supervision of research

**2017 - Academic degree:** Post-Doctoral researcher

**Institution:** CIIMAR (Portugal)

**Student:** Sylwia Śliwińska-Wilczewska

**Subject:** Ecology of allelopathic cyanobacteria

**2016 Academic degree:** Internship.

**Institution:** CIIMAR (Portugal)

**Student:** Ángela Quintero

**Subject:** Allelopathic compounds screening in microalgae

**2016 Academic degree:** Internship.

**Institution:** University of Porto (Portugal)

**Student:** Catarina Campos Ferreira

**Subject:** Allelopathy and phytoplankton population dynamics

**2011 Academic degree:** Ms. Sc.

Co-supervised with Immunology Professor África González-Fernández.

**Institution:** University of Vigo (Spain)

**Student:** Alexandra Castro Bugallo.

**Title:** Effect of nanoparticles in phytoplankton

**Qualification:** A

## Organization of scientific events

**Type of event:** International Congress.

**Nombre:** 7th World congress on allelopathy.

**Cargo:** Member of Scientific and Organizing committees in the parallel meeting "Marine Allelopathy".

**Location and date:** Vigo, Spain. 28 July – 1 August 2014.

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## TEACHING EXPERIENCE

**June 2016** Course *Statistics and programming with R for Biological sciences*. Universidade do Porto (Portugal). 40 h.

**April 2016** Course *Statistics and programming with R for Biological sciences*. Universidade do Porto (Portugal). 40 h.

**June 2015** Course *Statistics and programming with R for Biological sciences*. Universidade do Porto (Portugal). 40 h.

**October 2014** Course *Introductory statistics and programming with R for marine Biology/Ecology*. ECIMAT/Universidade de Vigo (Spain). 30 h.

**November 2014** Course *Statistics and programming with R for biological sciences*. CIIMAR/Universidade do Porto (Portugal). 30 h.

**July – October 2014** Course *Introductory statistics and programming with R for biological sciences*. 2<sup>a</sup> Edicion. CIIMAR/Universidade do Porto (Portugal). 36 h.

**June – September 2014** Course *Introductory statistics and programming with R for biological sciences*. CIIMAR/Universidad do Porto (Portugal). 36 h.

**Fall and spring semesters 2006 - 2007** Laboratory lessons in subject Ecology I, Universidade de Vigo (Spain).

**Fall and spring semesters 2005 – 2006** Laboratory lessons in subject Ecology I, Universidade de Vigo (Spain).

**Fall and spring semesters 2004 – 2005** Laboratory lessons in subject Ecology I, Universidade de Vigo (Spain).

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## **OTHER MERITS**

### **Academic awards**

“Extraordinary award” for the best qualifications (Biology 1997-2001) Vigo University (Spain).

### **Revision of scientific publications**

*Lymnology & Oceanography, Biogeochemistry, Marine Ecology Progress Series, Freshwater Biology, Microbial Ecology, International Journal of Ecology, American Naturalist, Thalassas, Ecology Letters, Chinese Journal of Oceanology and Limnology, Environmental Science and pollution Research.*

### **Evaluation of research grants**

**2014** Kazakhstan, National Center of Science and Technology.

**2013** Kazakhstan, National Center of Science and Technology.

**2011** Kazakhstan, National Center of Science and Technology.

#### **Member of Ph.D. Thesis committees**

**2011** Remote sensing, in situ monitoring and planktonic toxin vectors of harmful algal events in the optically complex waters of the Galician rias (NW Spain).  
Evangelos Spyarakos, University of Vigo (Spain).

#### **Member of Scientific Societies**

International Allelopathy Society (IAS). Regular member 2017 - currently  
Association for the Science of Limnology and Oceanography (ASLO). Regular member 2013 - 2014  
Ecological Society of America (ESA). Regular member 2012 - 2014  
Sociedade Galega de Historia Natural. Regular member 1994 -

#### **Assistance to symposia**

**2004** Conservation Biology and Biodiversity. Santiago de Compostela, Spain. 6-13 March 2004.

#### **Outreach activities**

**June 2014** Mostra UP 2014. Dissemination of scientific activity for high school students. University of Porto.

**October 2007** Colaboration in artistic exhibition "Tempo ao tempo/taking time". in the Museum of modern art (MARCO) of Vigo (Spain). Production and follow-up.