

PERSONAL INFORMATION

Sergio Fernández-Boo

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WORK EXPERIENCE

2007–2008

Graduate grant

IMAR- Marine Investigation Center, Coimbra (Portugal)

Technical assistance in the project "Implementation of the water framework directive in coastal and transition water ecosystems" supported by the Leonardo da Vinci grant of the University of Santiago de Compostela.

2012–2015

Technical Assistan in a Marine Aquaculture facility

Mussel Industry, Boiro (Spain)

2015–2016

Post doctoral position

IFREMER, La Tremblade (France)

Department LGPMM (Laboratory of Genetic and Pathology of Marine Molluscs) in La Tremblade. <http://www.ifremer.fr/sg2m/Laboratoire-de-Genetique-et-Pathologie-des-Mollusques-Marins>

2016–Present

Post doctoral position

CIIMAR, Porto (Portugal)

Postdoctoral position at Nutrition and Immunobiology group (NUTRIMU) under the project INSEAFOD. Current research, study of the immune status of sea urchin populations in Portugal.

EDUCATION AND TRAINING

2001–2006

Biology Degree

University of Santiago de Compostela, Santiago de Compostela (Spain)

2008–2015

PhD Degree in Biochemistry

University of Santiago de Compostela, Santiago de Compostela (Spain)

Thesis project: "Evaluation of the intra and interspecific variability in the genus *Perkinsus*. Proteomic analysis of the parasite and its interaction with the host".

PERSONAL SKILLS

Mother tongue(s)

Spanish

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Galician	C2	C2	C2	C2	C2
English	B2	B2	B2	B2	B2
FIRST degree by the University of Cambridge (B2 level)					

French	B2	B1	B1	B1	A2
Portuguese	C2	C2	C1	C1	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

**Job-related skills**

- good communication skills in oral presentations in several international meetings.
- good menthor on new students and direction of master projects.

**Digital competence**

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Independent user	Independent user

Digital competences - Self-assessment grid

**Other skills**

**qGIS course 25 hours training at CMIA (Ambiental interpretation and monitorization center).** September 2017.

- **CAL-AQUA - Laboratory Animal Science Course – Aquatic Organisms. FELASA - Category B.**  
 Handling and management of aquatic organisms in laboratory conditions for research purposes. 40 hours of duration. December 2016.
- Course in **Molecular data analysis using bioinformatics tools.** Organized by BioMar PT, 15 days duration. December 2016.
- 2008 **Master degree in Occupational Risk Prevention.** 800 hours. Developed by Xunta de Galicia (Regional Government).
- 2012 **EMBO Practical Course MASS SPECTROMETRY AND PROTEOMICS** developed in Protein Research Group, Department of Biochemistry and Molecular Biology. University of Southern Denmark, Odense.
- Diving title **"Open Water Diver"** by PADI (Professional Association of Diving instructors).

**Driving licence**

B

**ADDITIONAL INFORMATION**

**Publications**

Pardo, B., Hasanuzzaman, A. F., Rubiolo, J. A., Robledo, D., Gómez-Tato, A., Álvarez-Dios, J.A., **Fernández-Boo, S.**, Cao, A., Villalba, A., Martínez, P. (2017) Gene expression analysis of *Ruditapes philippinarum* haemocytes after experimental *Perkinsus olseni* zoospore challenge and infection in the wild. *Fish and Shellfish Immunology* (submitted).

Garcia Celine, Canier Lydie, Dubreuil Christine, Chollet Bruno, Baillon Laury, Dechamps Lucie, Lupo Coralie, Travers Marie-Agnes, Degremont Lionel, Morga Benjamin, Arzul Isabelle, Girardin Frederic, Osta Amigo Axel, Benabdelmouna Abdellah, Tourbiez Delphine, Bazet Mathilde, Haffner Philippe, Faury Nicole, Billy Jean-Christophe, Bodin Stephane, Comette Florence, Haure Joel, Lamy Jean-Baptiste, Ledu Christophe, Maurouard Elise, Lamy Pierre, Phelipot Pascal, Francois Cyrille, Raulin Pascal, Schwerdtle Pascal, Brun Aurelien, Laclau Tom, Azema Patrick, Gervais Ophelie, Parizadeh Leila, Picot Sandy, Dutta Bhagat Lal, **Fernandez Boo Sergio**, Martenet Claire, Godfrin Yoann, Grasset Martine, Rivet Florence, Betto Veronique, Audevard Babsy, Lapegue Sylvie, Bechemin Christian (2016). **Rapport annuel 2015 du Laboratoire National de Référence pour les maladies des mollusques marins.**

Hasanuzzaman A. F. M., Robledo D., Gómez-Tato A., Alvarez-Dios J. A., Harrison P., Cao A., **Fernández-Boo S.**, Villalba A., Pardo, B. G., Martínez P. (2016) Transcriptomic profile of Manila clam (*Ruditapes philippinarum*) haemocytes in response to *Perkinsus olseni* infection. *Aquaculture*. In Press.

Hasanuzzaman A. F. M., Robledo D., Gómez-Tato A., Alvarez-Dios J. A., Harrison P., Cao A., **Fernández-Boo S.**, Villalba A., Pardo, B. G., Martínez P. (2016) De novo transcriptome assembly of *Perkinsus olseni* trophozoite stimulated *in vitro* with Manila clam (*Ruditapes philippinarum*) plasma. *Journal of Invertebrate Pathology*. In Press.

**Fernández-Boo S.**, Villalba A., Cao A. (2016) Protein expression profiling in haemocytes and plasma of the Manila clam *Ruditapes philippinarum* in response to infection with *Perkinsus olseni*. *Journal of Fish Diseases*. Accepted.

**Fernández-Boo S.**, Villalba A., Cao A. (2015b) Variable protein profiles in extracellular products of the protistan parasite *Perkinsus olseni* among regions of the Spanish coast. *Journal of Invertebrate Pathology* **132**, 233-241.

**Fernández-Boo S.**, Villalba A., Cao A. (2015a) Cell proteome variability of protistan mollusc parasite *Perkinsus olseni* among regions of the Spanish coast. *Diseases of Aquatic Organisms* **113**(3), 245-256.

**Fernández-Boo S.**, Chicano-Gálvez E., Alhama J., Barea J.L., Villalba A., Cao A. (2014) Comparison of protein expression profiles between three *Perkinsus* spp., protozoan parasites of molluscs, through 2D electrophoresis and mass spectrometry. *Journal of Invertebrate Pathology* **118**, 47-58.

da Silva P.M., Vianna R.T., Guertler C., Ferreira L.P., Santana L.N., **Fernández-Boo S.**, Ramilo A., Cao A., Villalba A. (2013) First report of the protozoan parasite *Perkinsus marinus* in South America, infecting mangrove oysters *Crassostrea rhizophorae* from the Paraíba River (NE, Brazil). *Journal of Invertebrate Pathology* **113**(1), 96-103.

Ceia F.R., Patrício J., Franco J., Pinto R., **Fernández-Boo S.**, Losi V., Marques J.C., Neto J.M. (2013) Assessment of estuarine macrobenthic assemblages and ecological quality status at a dredging site in a southern Europe estuary. *Ocean & Coastal Management* **72**, 80-92.

Vilas R., Cao A., Pardo B.G., **Fernández S.**, Villalba A., Martínez P. (2011) Very low microsatellite polymorphism and large heterozygote deficits suggest founder effects and cryptic structure in the parasite *Perkinsus olseni*. *Infection, genetics and Evolution* **11**(5), 904-911.

## Projects

Project: "INNOVMAR - Innovation and Sustainability in the Management and Exploitation of Marine Resources, reference NORTE-01-0145-FEDER-000035, namely within the Research Line INSEAFOD Innovation and valorization of seafood products: meeting local challenges and opportunities". Supported by FEDER (European Union) and Portuguese National funding Program NORTE 2020. Reference: NORTE-01-0145-FEDER-000035 (3 years).

- Project: Influence of temperature on the interactions between mucus and parasites in marine bivalve molluscs (1 Year). Supported by the Region of Poitou Charentes and Ifremer (France).

- Project: "Perkinsosis of the clam: protein expression in the haemocytes and plasma in the host during his infection". Duration: 01/01/2012-31/12/2014 (2 years). Supported by Ministerio de Ciencia e Innovación. N° Ref: AGL2011-30449-C02-01.

- Project: "Proteomic analysis of the clam's immune system infected by *Perkinsus olseni*". Duration: 14/12/2009- 13/12/2010 (1 year). Supported by Ministerio de Ciencia e Innovación. N° Ref: AGL2009-13305C03-01.

- Project: "Protein markers identification as contamination indicators in the soft Shell clam (*R. decussatus*) and cockle (*C. edule*)". Duration: 2009-2012. Supported by Consellería de Economía e Industria, Xunta de Galicia. N° Ref: 09MMA008501PR.

- Project: "Perkinsosis in the Spanish coast: taxonomic differences of the parasite, life cycle and immune response with the host". Duration: 01/10/2006-31/12/2009 (3 years). Supported by Ministerio de Ciencia e Innovación. N° Ref: AGL2006-11809/ACU