

# DR ALEJANDRO GARRIDO-MAESTU

## *Curriculum vitae*

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### PERSONAL DETAILS

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Address: c/ Placer 1, 5F

36202

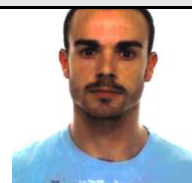
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### QUALIFICATIONS

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**PhD Microbiology** (2013) – “*Application of real-time PCR for pathogen detection in the food industry*”. Developed in the Microbiology and Bioassays Laboratory of ANFACO-CECOPESCA. University of Vigo. Extraordinary Doctorate Award from the University of Vigo.

**MSc** (2010) – “Methodologies and Applications in Life Sciences (quality mention by the Spanish Ministry of Education)”. University of Vigo.

**BSc** (2006) – Bachelor of Science (Fundamental and Sanitary Biology). University of Vigo.

**Clinical Diagnostic Laboratory Technician**. I.E.S. Manuel Antonio (2009-2012).

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### EMPLOYMENT HISTORY

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Jul 2018 – Present      **Staff researcher**, International Iberian Nanotechnology Laboratory. Braga, Portugal.

Jul 2017 – Jun 2018      **Postdoctoral fellow**, International Iberian Nanotechnology Laboratory. Braga, Portugal.

Jul 2015 – Jun 2017      **Postdoctoral fellow (Marie Curie COFUND)**, International Iberian Nanotechnology Laboratory. Braga, Portugal.

Jan 2015 – Jun 2015      **Postdoctoral associate** in the Jeong Laboratory, Emerging Pathogens Institute (University of Florida). Gainesville, United States.

Oct 2007 – Jan 2015      **Analyst** in the Microbiology and Bioassays Laboratory of ANFACO-CECOPESCA, Vigo.

Sept 2011 – Feb 2012      **Internship** in the Microbiology department of Meixoeiro Hospital.

	Vigo, 380 hours.
Aug 2007 – Oct 2007	<b>Internship</b> in the Microbiology and Bioassays Laboratory of ANFACO-CECOPECA. 401 hours, Vigo.
Apr 2007 – Jun 2007	<b>Researcher</b> in the microbiology laboratory of ECOFLOAT CONTROL SYSTEMS S.L. Barcelona.
Jul 2005 - Sept 2005	<b>Internship</b> in the Neurophysiology department of Meixoeiro Hospital, Vigo. 378 hours.

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## PUBLICATIONS

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### SCI journal articles

#### Accepted

- (1) Maria-Jose Chapela, Paula Fajardo, **Alejandro Garrido**, Ana G. Cabado, Martina Ferreira, Jorge Lago and Juan M. Vieites. Comparison between a TaqMan Polymerase Chain Reaction Assay and a Culture Method for *ctx*-Positive *Vibrio cholerae* Detection. *J. Agric. Food Chem.* 2010, 58, 4051-4055. [IF: 2.816].
- (2) Martiña Ferreira, Ana G. Cabado, María-José Chapela, Paula Fajardo, Miroslava Atanassova, **Alejandro Garrido**, Juan M. Vieites, Jorge Lago. Cytotoxic activity of extracts of marine sponges from NW Spain on a neuroblastoma cell line. *Environmental Toxicology and Pharmacology.* 2011, 32, 430-437. [IF: 1.469].
- (3) **Garrido, A.**, Chapela, M.-J., Ferreira, M., Atanassova, M., Fajardo, P., Lago, J., Vieites, J.M., Cabado, A.G. Development of a multiplex real-time PCR method for pathogenic *Vibrio parahaemolyticus* detection (*tdh+* and *trh+*). *Food Control.* 2012, 24, 128-135. [IF: 2.738].
- (4) **Alejandro Garrido**, María-José Chapela, Belén Román, Martiña Ferreira, Jorge Lago, Juan M. Vieites, Ana G. Cabado. Development of a multiplex real-time PCR method for simultaneous detection of *Salmonella enterica*, *Shigella flexneri* and *Listeria monocytogenes* in processed food samples. *European Food Research and Technology.* 2012, 234: 571-580. [IF: 1.436].
- (5) **Alejandro Garrido**, María-José Chapela, Belén Román, Paula Fajardo, Jorge Lago, Juan M. Vieites, Ana G. Cabado. A new multiplex real-time PCR developed method for *Salmonella* spp. and *Listeria monocytogenes* detection in food and environmental samples. *Food Control.* 2013, 30:76-85. [IF: 2.819]
- (6) **Alejandro Garrido**, María-José Chapela, Belén Román, Paula Fajardo, Jorge Lago, Juan M. Vieites, Ana G. Cabado. In-house validation of a multiplex Real-Time PCR method for simultaneous detection of *Salmonella* spp., *Escherichia coli* O157 and *Listeria monocytogenes*. *International Journal of Food Microbiology.* 2013, 164: 92-98. [IF: 3.155].
- (7) **Alejandro Garrido-Maestu**, María-José Chapela, Belén Román, Juan M. Vieites, Ana G. Cabado. Application of a novel pathogenicity marker in a multiplex Real-Time PCR method to asses total and pathogenic *Vibrio vulnificus* in food and environmental samples. *Food Control.* 2014, 35(1): 274-283. [IF: 2.806].
- (8) Ferreira M., Blanco L., **Garrido A.**, Vieites J.M., Cabado A.G. In vitro approaches to evaluate organotin compounds tributyltin (TBT), dibutyltin (DBT) and monobutyltin (MBT)-induced toxicity in neuroblastoma cells. *J. Agric. Food Chem.* 2013, 61 (17), 4195-4203. [IF: 3.107].
- (9) **Alejandro Garrido-Maestu**, María-José Chapela, Elvira Peñaranda, Juan M. Vieites, Ana G. Cabado. In-house validation of a novel multiplex Real-Time PCR gene combination for the

- simultaneous detection of the main human pathogenic vibrios (*Vibrio cholerae*, *Vibrio parahaemolyticus*, and *Vibrio vulnificus*). *Food Control*. 2014, 37: 371-379. [IF: 2.806].
- (10) Atanassova, M.; Chapela, M. J.; **Garrido, A.**; Fajardo, P.; Ferreira, M.; Lago, J.; Auburg, S. P.; Vieites, J. M.; Cabado, A. G. Microbiological quality of ready-to-eat pickled fish products. *Journal of Aquatic Food Product Technology*. 2014, 23 (5): 498-510. [IF: 0.688]
- (11) Paula Fajardo, Miroslava Atanassova, **Alejandro Garrido-Maestu**, Tim Wortner-Smith, Jane Cotterill, Ana G. Cabado. Bacteria isolated from shellfish digestive gland with antipathogenic activity as candidates to increase the efficiency of shellfish depuration process. *Food Control*. 2014 46: 272-281. [IF: 2.806].
- (12) **Alejandro Garrido-Maestu**, María-José Chapela, Juan M. Vieites, Ana G. Cabado. Application of Real-Time PCR to detect *Listeria monocytogenes* in a mussel processing industry: impact on control. *Food Control*. 2014, 46: 319-323. [IF: 2.806].
- (13) **Alejandro Garrido-Maestu**, María-José Chapela, Juan M. Vieites, Ana G. Cabado. *lolB* gene, a valid alternative for qPCR detection of *Vibrio cholerae* in food and environmental samples. *Food Microbiology* 2015, 46: 535-540. [IF: 3.682].
- (14) **Alejandro Garrido-Maestu**, Vieites-Maneiro R., Peñaranda E., Cabado A.G. Development, and complete evaluation, of a novel Most-Probable-Number (MPN) qPCR method for accurate and express quantification of *Listeria monocytogenes* in foodstuffs. *European Food Research and Technology*. 2015, 241 (5): 697-706. [IF: 1.433].
- (15) **Alejandro Garrido-Maestu**, María-José Chapela, Juan M. Vieites, Ana G. Cabado. Re-evaluation of Enhanced qPCR Prevalence Method for Next-day Detection of *Salmonella* spp., *Shigella* spp., *Escherichia coli* O157 and *Listeria monocytogenes*. *Food Biotechnology*. 2015, 29 (4): 317-335. [IF: 0.814].
- (16) **Alejandro Garrido-Maestu**, Antonio Lozano-León, Rafael R. Rodríguez-Souto, María-José Chapela, Juan M. Vieites, Ana G. Cabado. Presence of pathogenic *Vibrio* species in fresh mussels harvested in the southern Rias of Galicia (NW Spain). *Food Control*. 2016, 59: 759-765. [IF: 3.496].
- (17) **Alejandro Garrido-Maestu**, Pablo Fuciños, Sarah Azinheiro, Joana Carvalho, Marta Prado. Systematic Loop-mediated isothermal amplification assays for rapid detection and characterization of *Salmonella* spp., Enteritidis and Typhimurium in food samples. *Food Control*. 2017, 80: 297-306. [IF: 3.388].
- (18) Rafael R. Rodríguez-Souto, **Alejandro Garrido-Maestu**, Alejandro Pastoriza-Fontan, Antonio Lozano-Leon. Investigation and characterization of Shiga toxin-producing *Escherichia coli* present in mussels from harvesting areas in Galician southern Rias (NW Spain). *Journal of Food Safety*. DOI: 10.1111/jfs.12367. [IF: 0.915].
- (19) Zhengxin Ma, **Alejandro Garrido-Maestu**, Choonghee Lee, Jungwhan Chon, Daehee Jeong, Yiren Yue, Kidon Sung, Yeonhwa Park, Kwancheol Casey Jeong. Comprehensive *in vitro* and *in vivo* risk assessments of chitosan microparticles using human epithelial cells and *Caenorhabditis elegans*. *Journal of Hazardous Materials*. 2018, 341: 248-256. [IF: 6.065].
- (20) Zhengxin Ma, **Alejandro Garrido-Maestu**, Kwancheol Casey Jeong. Application, mode of action, and *in vivo* activity of chitosan and its micro- and nanoparticles as antimicrobial agents: A review. *Carbohydrate Polymers*. 2017, 176: 257-265. [IF: 4.811].
- (21) **Alejandro Garrido-Maestu**, Sarah Azinheiro, Joana Carvalho, Sara Abalde-Cela, Enrique Carbó-Argibay, Lorena Diéguez, Marek Piotrowski, Yury V. Kolen'ko and Marta Prado. Combination of Microfluidic Loop-Mediated Isothermal Amplification with Gold Nanoparticles for Rapid Detection of *Salmonella* spp. in Food Samples. *Frontiers in Microbiology*. 2017 (8). doi: 10.3389/fmicb.2017.02159. [IF: 4.076].
- (22) **Alejandro Garrido-Maestu**, Sarah Azinheiro, Pablo Fuciños, Joana Carvalho, Marta Prado. Highly sensitive detection of gluten-containing cereals in food samples by real-time Loop-

mediated isothermal AMPlification (qLAMP) and real-time polymerase chain reaction (qPCR). *Food Chemistry*. 2018 (246) 156-163. [IF: 4.529].

- (23) **Alejandro Garrido-Maestu**, Sarah Azinheiro, Joana Carvalho, Pablo Fuciños, Marta Prado. Development and evaluation of loop-mediated isothermal amplification, and Recombinase Polymerase Amplification methodologies, for the detection of *Listeria monocytogenes* in ready-to-eat food samples. *Food Control*. 2018, 86: 27-34. [IF: 3.388].
- (24) **Alejandro Garrido-Maestu**, Sarah Azinheiro, Joana Carvalho, Marta Prado. Rapid and sensitive detection of viable *Listeria monocytogenes* in food products by a filtration-based protocol and qPCR. *Food Microbiology*. 2018 73 (2018) 254-263. [IF: 3.759].
- (25) Joana Carvalho, Renato Negrinho, Sarah Azinheiro, **Alejandro Garrido-Maestu**, Jorge Barros-Velázquez, Marta Prado. Novel approach for accurate minute DNA quantification on microvolumetric solutions. *Microchemical Journal*, 2018. doi: 10.1016/j.microc.2018.02.001. [IF: 3.034].
- (26) Joana Carvalho, Gema Puertas, João Gaspar, Sarah Azinheiro, Lorena Diéguez, **Alejandro Garrido-Maestu**, Manuel Vázquez, Jorge Barros-Velázquez, Susana Cardoso, Marta Prado. Highly efficient DNA extraction and purification from olive oil on a washable and reusable miniaturized device. *Analytical Chemica Acta*. doi: 10.1016/j.aca.2018.02.079. [IF: 4.950].
- (27) **Alejandro Garrido-Maestu**, Zhengxin Ma, Sae-Yeol-Rim Paik, Nunsheng Chen, Sanghoon Ko, Zhaohui Tong, Kwancheol Casey Jeong. Engineering of chitosan-derived nanoparticles to enhance antimicrobial activity against foodborne pathogen *Escherichia coli* O157:H7. *Carbohydrate Polymers*. 2018, 197: 623-630. [IF: 4.811].

#### Non SCI journal articles

- (1) Chapela M.J, **Garrido-Maestu A.**, Vieites J.M., Cabado A.G. Detection of foodborne pathogens by qPCR: a practical approach for food industry applications. *Cogent Food & Agriculture* 1 (1) 2015.
- (2) María-José Chapela, Martiña Ferreira, Asela Ruiz-Cruz, Iris Martin-Varela, Jacobo Fernández-Casal, **Alejandro Garrido-Maestu**. Application of real-time PCR for early diagnosis of diseases caused by *Aeromonas salmonicida*, *Vibrio anguillarum*, and *Tenacibaculum maritimum* in turbot: A field study. *Journal of Applied Aquaculture*. 2018 (30), 76-89.
- (3) Sarah Azinheiro, Joana Carvalho, Marta Prado, **Alejandro Garrido-Maestu**. Evaluation of different genetic targets for *Salmonella enterica* serovar Enteritidis and Typhimurium, using Loop-mediated isothermal AMPlification for detection in food samples. *Frontiers in Sustainable Food Systems*. doi: 10.3389/fsufs.2018.00005.

#### Books and Book Chapters

- (1) Atanassova M., Chapela M.J., **Garrido A.**, Vieites J.M., Cabado A.G. Evaluation of the microbiological risk in ready-to-eat food. Editorial Académica Española. ISBN: 978-3-659-02902-8.
- (2) Alberto Otero, María-José Chapela, Paula Fajardo, **Alejandro Garrido**, and Ana G. Cabado. Seafood and Freshwater Toxins. Pharmacology and Detection. Chapter 17: Genetic tools for aquatic toxin detection. Editor: Luis M. Botana. Editorial: Taylor & Francis. Third edition. 497-519. ISBN: 978-1-4665-0514-8.
- (3) Aníbal Martínez, **Alejandro Garrido-Maestu**, Begoña Ben, María José Chapela, Virginia González, Juan M Vieites, Ana G Cabado. Springer Handbook of Marine Biotechnology. Chapter



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## POSTGRADUATE TEACHING AND SUPERVISION EXPERIENCE

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**Instructor** - “Seafood Processing: Modern Technologies and New Product Development”. Blocks: “Screening of residues of antibiotics in processed seafood products” and “Rapid Detection of Pathogens”. Organizer: Food and Agriculture Organization of the United Nations (FAO) and the International Centre of High Mediterranean Agronomic Studies (Mediterranean Agronomic Institute of Zaragoza). Vigo, February 04-08<sup>th</sup>, 2013.

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## MAJOR CONFERENCE PRESENTATIONS

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- (1) Belén Buján, **Alejandro Garrido**, Geles Marcote, Jorge Lago, Juan Manuel Vieites y Ana G. Cabado. Validation of a fast analysis method for the quantification of microbiological parameters. **VI Reunion of the Microbial Biotechnology and Industrial Microbiology group of the SEM**. Barcelona. November 12-14<sup>th</sup>, 2008.
- (2) Chapela M.J., **Garrido A.**, Fajardo P., Ferreira M., Atanassova M., Lago J., Vieites J.M., Cabado A.G. Serotyping of pathogenic microorganisms using real time PCR: Identification of toxigenic *Vibrio cholerae* **III Congress of Parga Pondal and Ramón y Cajal researchers from Galicia**. Ourense, November 13<sup>th</sup>, 2009.
- (3) **Garrido A.**, Chapela M.J., Lago J., Ferreira M., Atanassova M., Vieites J.M., Cabado A.G. Comparison of real time PCR and ISO 21872-1:2007 for the detection of pathogenic *Vibrio parahaemolyticus*. **VIII Reunion of the Microbiology of Aquatic Medium**. Vigo, Pontevedra (Spain), September 14-16<sup>th</sup>, 2010.
- (4) Chapela M.J., **Garrido A.**, Ferreira M., Atanassova M., Lago J., Vieites J.M., Cabado A.G. A new multiplex real time PCR platform for rapid and simultaneous detection of *Salmonella*, *Shigella* and *Listeria monocytogenes* in seafood products. **40th WEFTA Annual Meeting**. Izmir (Turkey), 4-7 de Octubre, 2010.
- (5) **Garrido A.**, Chapela M.J., Ferreira M., Atanassova M., Lago J., Fajardo P., Vieites J.M., Cabado A.G. Detection of pathogenic *Vibrio parahaemolyticus* (*tdh* + and *trh* +) in seafood by real time PCR. Comparison with ISO 21872-1:2007. **Food Innova 2010**. Valencia (Spain), October 25-29<sup>th</sup>, 2010.
- (6) **A. Garrido**, M.J. Chapela, P. Fajardo, M. Ferreira, M. Atanassova, J. Lago, J.M. Vieites, A. Cabado. **Vibrio 2011**. Development of a Real-Time PCR method for the detection of pathogenic *V. parahaemolyticus* in seafood and water samples. **The fourth conference on the biology of Vibrios**. Santiago de Compostela. November 1-4<sup>th</sup> 2011
- (7) **A. Garrido**, M.J. Chapela, J.M. Vieites, A.G. Cabado. *Salmonella* spp. and *Listeria monocytogenes* Detection in Food Samples Combining a Single Step Enrichment with Multiplex Real-Time PCR. **European Symposium on Food Safety**. Varsovia. May 21-23<sup>th</sup> 2012.
- (8) **Alejandro Garrido-Maestu**, María-José Chapela, Belén Román, Juan M. Vieites, Ana G. Cabado. New multiplex qPCR method for *Vibrio vulnificus* detection, an environmental bacterium and emerging pathogen. **Reference Congress. Food Analysis 2014, National Food Center**. Majadahonda. June 10-12<sup>th</sup> 2014.
- (9) **Alejandro Garrido-Maestu**, María-José Chapela, Belén Román, Elvira Peñaranda, Juan M. Vieites, Ana G. Cabado. Detection of pathogenic species of *Vibrio* genus by multiplex qPCR. **Workshop on Food Safety of life bivalve mollusks**. Bueu. September 12<sup>th</sup> 2014.
- (10) Rafael Rodríguez-Souto, **Alejandro Garrido-Maestu**, Antonio Lozano-Leon. Dynamics of *Vibrio parahaemolyticus* with virulence genes detected in mussel (*Mytilus galloprovincialis*) in Galicia harvesting areas. **Workshop on Food Safety of life bivalve mollusks**. Bueu. September 12<sup>th</sup> 2014.
- (11) **Alejandro Garrido-Maestu**, María-José Chapela, Juan M. Vieites, Ana G. Cabado. *Listeria monocytogenes* boiled frozen mussels cross-contamination. **II International Scientific Symposium on Innovation in Marine and Food Industry**. “Sustainable Future Food”. Vigo. September 15-16<sup>th</sup> 2014.

- (12) Rafael Rodriguez-Souto, **Alejandro Garrido-Maestú**, Alejandro Pastoriza-Fontan, Antonio Lozano-Leon. Action and cellular effects of adherence and cytotoxicity produced by European clinical and environmental strain of *Vibrio parahaemolyticus*. **49<sup>th</sup> U.S.-Japan Conference on Cholera and Other Enteric Bacterial Infections**. Gainesville, FL. January 14-16<sup>th</sup> 2015.
- (13) Zhengxin Ma, **Alejandro Garrido-Maestu**, Kwangcheol Jeong. In situ antimicrobial activity of chitosan nanoparticles. **Emerging Pathogens Institute Research Day**. Gainesville, FL. February 26<sup>th</sup> 2015.
- (14) Zhengxin Ma, **Alejandro Garrido-Maestu**, Kwangcheol Jeong. Engineering of Chitosan-based Nanoparticles for pathogenic microorganisms in animals. **Gordon Research Conferences**, Nanoscale Science & Engineering for Agriculture & Food Systems. Bentley University, Waltham, MA. June 7<sup>th</sup>-12<sup>th</sup> 2015.
- (15) Zhengxin Ma, **Alejandro Garrido-Maestu**, Sae-Yeol-Rim Paik, Nusheng Chen, Sanghoon Ko, Zhaohui Tong, Kwangcheol Jeong. Engineering of Chitosan-Driven Nanoparticles to Enhance Antimicrobial Activity against Foodborne Pathogen *Escherichia coli* O157:H7. **International Association for Food Protection**. St. Louis, MO. June 31<sup>st</sup> – August 3<sup>rd</sup>, 2016.
- (16) **Alejandro Garrido-Maestu**, Pablo Fuciños, Enrique Carbó-Argibay, Yuri V. Kolen'ko, Marta Prado. Detection of *Salmonella* spp. by Loop-mediated isothermal AMPLification, combined with gold nanoparticles. **XX National Conference on Food Microbiology**, León, Spain. September 14<sup>th</sup> – 16<sup>th</sup>, 2016.
- (17) María José Chapela, **Alejandro Garrido-Maestu**, Martiña Ferreira, Asela Ruiz Cruz, Iris Martín Varela, Jacobo Fernández. Development and application of molecular techniques for fast diagnosis of bacterial diseases in turbot tissue. **XIX Forum of marine resources and aquaculture of the Galician Rias**. O Grove, Spain October 17<sup>th</sup>, 2016.
- (18) Martiña Ferreira, María José Chapela, Celia Varela, **Alejandro Garrido-Maestu**, Luz Arregui. Development of a multiplex real-time PCR method for the diagnosis of three bacterial diseases in rainbow trout. **XIX Forum of marine resources and aquaculture of the Galician Rias**. O Grove, Spain October 17<sup>th</sup>, 2016.
- (19) Gema Puertas, Joana Carvalho, Joao Gaspar, Lorena Diéguez, Sarah Azinheiro, **Alejandro Garrido-Maestu**, Manuel Vázquez, Marta Prado. Optimization of a DNA purification protocol by microscale solid phase extraction ( $\mu$ SPE) and microfluidics for food products on a washable and reusable device. **ExTech 2017**. Santiago de Compostela, Spain June 27<sup>th</sup>-30<sup>th</sup>, 2017.
- (20) Miguel Cerqueira, Vasco D. F. Martins, Joana M. R. Curto, Pablo Fuciños, **Alejandro Garrido-Maestu**, Lorenzo Pastrana. Active Cellulose/ Ethyl Cellulose Bi-layer Films: Development And Characterization. **3<sup>rd</sup> International Conference on Natural Fibers – Advanced Materials for a Greener World**. Braga, Portugal 21<sup>st</sup>-23<sup>rd</sup> June 2017.
- (21) Sarah Azinheiro, **Alejandro Garrido-Maestu**, Pablo Fuciños, Joana Carvalho, Marta Prado. Development and evaluation of different DNA amplification approaches based on Loop-mediated isothermal amplification and real-time PCR for the detection gluten-containing cereals in food samples. **8<sup>th</sup> International Symposium on Recent Advances in Food Analysis (RAFA 2017)**. November 7–10, 2017. Prague, (Czech Republic).
- (22) Sarah Azinheiro, Joana Carvalho, Marta Prado, **Alejandro Garrido-Maestu**. Loop-mediated isothermal amplification (LAMP) for foodborne pathogen detection: evaluation of different genetic targets for *Salmonella enterica* serovar Enteritidis and Typhimurium characterization. **8<sup>th</sup> International Symposium on Recent Advances in Food Analysis (RAFA 2017)**. November 7–10, 2017. Prague, (Czech Republic).
- (23) Joana Carvalho, Gema Puertas, Sarah Azinheiro, Joao Gaspar, **Alejandro Garrido-Maestu**, Lorena Diéguez, Jorge Barros-Velázquez, Manuel Vázquez, Marta Prado. Miniaturized devices for sample preparation providing highly efficient DNA extraction from olive oil. **8<sup>th</sup> International Symposium on Recent Advances in Food Analysis (RAFA 2017)**. November 7–10, 2017. Prague, (Czech Republic).
- (24) **Alejandro Garrido-Maestu**, Sarah Azinheiro, Pablo Fuciños, Joana Carvalho, Marta Prado. Isothermal DNA amplification for *Salmonella* spp. detection and characterization. **2<sup>nd</sup> International Conference on Food Microbiology**, Madrid, Spain. November 29<sup>th</sup>-30<sup>th</sup>, 2017.

- (25) **Alejandro Garrido-Maestu**, Sarah Azinheiro, Joana Carvalho, Marta Prado. Detection of *Listeria monocytogenes* by combination of Immunomagnetic separation and Real-Time RPA in smoked salmon. **40<sup>th</sup> International Conference on Environmental & Food Monitoring**, Santiago de Compostela. June 19<sup>th</sup>-22<sup>nd</sup>.
- (26) Joana Carvalho, **Alejandro Garrido-Maestu**, Sarah Azinheiro, Jorge Barros-Velázquez, Marta Prado. Development of Real-Time Loop-mediated isothermal AMPLification (qLAMP) and Polymerase Chain Reaction (qPCR) methods for detection of *Dreissena polymorpha* in the Guadalquivir river basin. **40<sup>th</sup> International Conference on Environmental & Food Monitoring**, Santiago de Compostela. June 19<sup>th</sup>-22<sup>nd</sup>.
- (27) **Alejandro Garrido-Maestu**. Sarah Azinheiro, Joana Carvalho, Marta Prado. Isothermal DNA amplification strategies for the detection of *Listeria monocytogenes* in food samples. **40<sup>th</sup> International Conference on Environmental & Food Monitoring**, Santiago de Compostela. June 19<sup>th</sup>-22<sup>nd</sup>.

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## PROJECT PARTICIPATIONS

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- (1) Galician Government. Paula Fajardo, Ana G. Cabado, Jorge Lago, **Alejandro Garrido-Maestu** (analyst), Angeles Marcote, María-José Chapela. *Development of an active container for the control of microorganisms that alter fish and refrigerated fishing products; and also a molecular method for the evaluation of its effectiveness*. 2008-2010. **97,500€**.
- (2) Galician Government. Jorge Lago, Antonio Reboreda, **Alejandro Garrido-Maestu** (analyst), María Victoria Docampo. *Exploitation of marine sponges or viability of their culture to obtain active substances*. 2008-2010. **118,435€**.
- (3) Spanish Science and Innovation Ministry. Vanesa Moreno, Diego Méndez, Amado Caride, Nieves Rodríguez, Ana Álvarez, Virginia González, **Alejandro Garrido-Maestu** (analyst) José Luis Meniño. *Development of active containers with natural additives obtained from agro industrial residues*. 2009-2011. **70,914€**
- (4) Galician Government. María-José Chapela, Jacobo Casal, **Alejandro Garrido-Maestu** (analyst). *Development of molecular tools for the diagnostic of bacterial and parasitic diseases in cultured sole*. 2010-2012. **130,671€**.
- (5) Galician Government. Vanesa Moreno, Amado Caride, Nieves Rodríguez, Ana Álvarez, Lorena Formoso, Jorge Lago, Angeles Duran, Paula Fajardo, Francisco Ramon Perez, Vanesa Losada, Vanesa Hernandez, **Alejandro Garrido-Maestu** (analyst) José Luis Meniño. ECOSON. *Design and Development of an ultrasound preservation system for fish and aquaculture products*. 2010-2013. **158009€**.
- (6) European Union. Ana G. Cabado, J.M. Vieites, Jorge Lago, María-José Chapela, **Alejandro Garrido**, Martiña Ferreira. *Knowledge Transfer Network for Prevention of Mental Diseases and Cancer in the Atlantic Area (Pharmatlantic)*. 2010-2012. **220,946€**.
- (7) Fiskeri-og havbruksnæringens forskningsfond (FHF) (Norwegian Seafood Research Fund). Rodrigo González, Miroslava Atannasova, Ana Losada, **Alejandro Garrido** (analyst), Nieves Rodríguez, Estefanía Gil. "Development and implementation of technical criteria for the differentiation of light vs. Fully salted/ desalted cod products. How to disseminate appropriate information and avoid misleading consumers". 2014-2015. **190,896.09€**.

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## ADDITIONAL ACTIVITIES AND RESPONSIBILITIES

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**Journal reviewer** - Invited reviewer for Journal of Dairy Science, Springer Plus, Ecosistemas y Recursos Agropecuarios, African Journal of Microbiology Research, Journal of Veterinary Medicine and Animal Health, Food Control, Food Biotechnology, Journal of Photochemistry and Photobiology B Biology, Journal of Food Safety, Cogent Food & Agriculture, International Journal of Food Microbiology, Frontiers in Microbiology and Food Analytical Methods.



**Deputy responsible of the molecular biology laboratory** of the International Iberian Nanotechnology Laboratory.

***Assistance to Workshops and Technical Formation Activities:***

- (1) **VIII Practical Initiation to Clinical Analyses.** Recognized of sanitary interest by the Galician Government. University of A Coruña. 64 hours. 3/07/2006 31/07/2006.
- (2) **Food Microbiology Analyses (13<sup>rd</sup> edition).** University of Vigo, Campus of Ourense. 45 hours. 10/11/2006 25/11/2006.
- (3) **Microbiological and Physic-Chemical Parameters Analyses of Water (13<sup>th</sup> edition).** University of Vigo, Campus of Ourense. 36 hours. 12/01/2007 27/01/2007.
- (4) **Microbiological Indicators of Contamination (13<sup>rd</sup> edition).** University of Vigo, Campus of Ourense. 39 hours. 2/02/2007 – 17/02/2007.
- (5) **XXII Manual and Automatic Techniques for the Isolation and Identification of Pathogenic Microorganisms.** Organized by bioMérieux España, S. A. Vigo. 23/10/2007 – 24/10/2007.
- (6) **Industrial Microbiology Workshop “bioMérieux Próximo Vigo”.** Organized by bioMérieux España, S. A. Vigo. 25/10/2007.
- (7) **PCR in the food industry Workshop.** Organized by Bioser. Vigo. 15/04/2008.
- (8) **Solutions for the Control of Histamine Workshop.** Organized by Bioser. Vigo. 1/07/08.
- (9) **Application of biosensors for the detection of toxins in mollusks.** Vigo. 8/10/08.
- (10) **Fast detection of biotoxins in seafood.** Vigo. 9-10/10/08.
- (11) **Theoretic and Practical Real Time PCR.** Organized by Cultek. Vigo 25 hours. 10/02/09
- (12) **Statistic applied to Biology using free software (on-line).** 51 hours. 01/10/09 – 31/10/09.
- (13) **Fast Techniques for Pathogens detection by Immunofluorescence (VIDAS), and Quantification of Contaminating microorganisms by miniaturized MPN (TEMPO).** Organized by BioMérieux España. Vigo 22 hours. 02/11/09 – 06/11/09.
- (14) **Advanced Tests about New Toxins appeared in the Atlantic Area. Training in rapid testing for algal toxins in shellfish.** Vigo 24/05/11.
- (15) **Pandemics: new viral infections.** On-line, 12 hours. 10/2014.
- (16) **Microbes around you.** On-line, 17.5 hours. 06/ 2015.
- (17) **Culture-independent techniques in food microbiology.** On-line, 01/10/2015-20/12/2015.
- (18) **From the Lab to the Market- the next step for INL’s Researchers.** Organized by Porto Business School at INL (Braga). June 13<sup>th</sup>-22<sup>nd</sup> 2016.
- (19) **Hands-on qPCR.** Organized by TATAA Biocenter in Vestec, Prague, Czech Republic. 27-29/03/2017.
- (20) **Digital PCR – Applications and Analysis.** Organized by TATAA Biocenter in Vestec, Prague, Czech Republic. 30-31/03/2017.
- (21) **3<sup>rd</sup> International hands-on Phage biotechnology course.** Organized by the Bacteriophage Biotechnology Group from the University of Minho, in Braga, Portugal. June 19-23/06/2017

***Outside interests*** – Futsal, Soccer, Squash, Karate.

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**CURRENT COLLABORATIVE RELATIONSHIPS**

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- Dr. Antonio Lozano-León (Institute of Applied Microbiology-ASMECRUZ). Study of bacterial pathogens in food products.

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**PROFESIONAL ASSOCIATIONS**

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Member of Spanish Society for Microbiology

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**REFEREES**

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