

JOSÉ ANTONIO FERNÁNDEZ ROBLED, Ph.D.

June 26, 2016

CONTACT INFORMATION

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Current Appointment

Senior Research Scientist at Bigelow Laboratory for Ocean Sciences
Research Scientist at Colby College, Waterville, ME
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East Boothbay, ME04544-0380
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Research Gate ([Link](#))

Current USA Immigration Visa Status
Permanent Resident

EDUCATION

- 1987 Licentiate in Biology, (Molecular Biology), University of Santiago de Compostela, Spain
- 1988 MS, Fish Pathology and Aquaculture, University of Santiago de Compostela, Spain
- 1994 PhD, Biochemistry and Molecular Biology, University of Santiago de Compostela, Spain
Program of Marine Biology and Aquaculture, "Parasites of the blue mussel, *Mytilus galloprovincialis* Lmk. experimentally cultured in Ría de Vigo: Epizootiology, histopathology, and defense mechanisms". Mentor: Antonio Figueras Huerta

POSTGRADUATE EDUCATION AND TRAINING

1995-1996 Post-Doctoral Fellow CSIC at COMB, UMBI

Scholarships and Fellowships

- 1983/1984, 1984/1985, 1985/1986
Undergraduate Fellow of Ministry of Education and Science
- 1986/1987 Undergraduate Fellow of INAPE, Department of Microbiology and Parasitology, Faculty of Pharmacy, University of Santiago de Compostela, Spain, course
- 1988 Undergraduate Fellow of Dirección Xeral de Formación e Promoción Social da Consellería de Pesca, "Fish Farming", Centro de Investigación Couso-Ribeira, Spain
- 1990-1992 Undergraduate Fellow of Diputación Provincial de Pontevedra, IIM -CSIC, Vigo, Spain
- 1991 Undergraduate Fellow of Foundation CAIXA GALICIA, IFREMER-La Tremblade, France
- 1992-1994 Undergraduate Fellow. Xunta de Galicia, IIM-CSIC, Vigo, Spain

Other Training

- 1987/1988 Course of informatics. University of Santiago de Compostela, Spain

- 1989 Techniques on Aquaculture and Culture of Mollusks Bivalves. Santa Cruz de Liáns-Oleiros, March Center of formation on Aquaculture-Fundación Municipal de Cultura, La Coruña, Spain
- 1989 Course of Genetic in Microorganisms: Introduction to Genetic Engineering, July, Institute of Cell Science –CSIC, Valencia, Spain
- 1990 Seminary about Culture of mollusks bivalves in Spain. Institute of Marine Sciences-CSIC. Vigo, Spain
- 1990 Seminar "The Human Genome: New Opportunities, New Dilemmas". August, International University Menéndez Pelayo. Magdalena's Palace, Santander, Spain
- 1991 Course on Pathology of Marine Organisms. July, University of Vigo, Spain
- 1991 Third international workshop on Bonamiasis and related disease problems of oysters. Dept. of the Marine, Fisheries Research Center, Dublin, Ireland
- 1991 Workshop on *Bonamia ostreae*. IFREMER-La Tremblade, France
- 2004 Lecture "Starting your Own Lab- The Do's and Don'ts" by Russell J. DiGate, Ph.D. Professor and Associate Dean for Research, School of Pharmacy 29 April
- 2005 Course "MBL-TIGR Advances in Genome Technology & Bioinformatics", October 3-29, Woods Hole, Massachusetts
- 2007 DOT-IATA Shipping Certificate. December

Scholar Awards and Certificates

- Certificate of Appreciation. UMBI, November 30, 2005.
- Award Medal "Insignia" from the National Counsel for the Scientific Research (CSIC), 1995, Spain.
- Award "1994 Investigation Award" title "Diseases of commercially important mollusks from the Vigo Bay", presented by José-Antonio Fernández-Robledo and Antonio Figueras Huerta in Excelentísima Diputación de Pontevedra, Spain.

Patents

- Vasta, GR, Marsh, AM, Robledo, JAF, Coss, CA, Wright, AC. Assay for *Perkinsus* in Shellfish. U.S. patent application number 08/900,117, awarded December 2001.
- Robledo, JAF, Vasta, GR. 2008. *Perkinsus* as a system for production of recombinant proteins. Final patent pending.
- Robledo, JAF, Vasta, GR. 2008. A transfection system for *Perkinsus* species.

EMPLOYMENT HISTORY

Academic Appointments

1997 – 2005	Research Associate, COMB, UMBI
2005 – 2009	Research Assistant Professor, COMB, UMBI
2010 – 2012	Assistant Professor, UMB-SOM, IMET
2012 – Present	Senior Research Scientist, Bigelow Laboratory for Ocean Sciences
2013 – Present	Research Scientist at Colby College Colby College, Waterville, ME

Professional Society Memberships

1984-1985	Mycological Society "Os Cogordos", Ourense (Spain)
1998-2012	Smithsonian Institution
2002-2004	National Shellfisheries Association
1999-2010	American Association for the Advancement of the Science
2007-2010	Baltimore-Washington Malaria Group
2012-present	American Society of Microbiology
2013-present	American Society of Parasitologists

Honors and Awards

- 1994 Award "1994 Investigation Award" title "Diseases of commercially important mollusks from the Vigo Bay", presented by José-Antonio Fernández-Robledo and Antonio Figueras Huerta, Excelentísima Diputación de Pontevedra, Spain
- 1995 Award Medal "Insignia" from the National Counsel for the Scientific Investigation (CSIC), Spain
- 2005 Certificate of Appreciation. UMBI

Administrative Service

Institutional Service

- 2001-2002 Secretary of *Et al.* (Post-Doc and Technicians) Association at COMB
- 2003-2004 President of *Et al.* (Post-Doc and Technicians) Association at COMB
- 2007-2010 Grant reviewer - UMBI Intercenter Grants

Local and National Service

- 1993-1994 Red Cross, Vigo (Spain)
- 1999-2000 Grant reviewer - The Third World Science Foundation
- 2002 Scientific Committee of the 10th International Congress of Parasitology. Co-Chair the Genomics Session, August 4th to 9th 2002, Vancouver, Canada
- 2004 Reviewer for the Chapter "Parasitology of Pectinid Mollusks" in the book CYTED (Science and Technology Development), México
- 2007-Present Proposal Reviewer - INCITE, Xunta de Galicia, Spain
- Reviewer – Journal of Parasitology
- Reviewer – Disease of Aquatic Organisms
- Reviewer – Journal of Invertebrate Parasitology
- Reviewer – Aquatic Living Resources
- Reviewer – Fish and Shellfish Immunology
- Reviewer – Protist
- Reviewer – PLoS ONE
- Reviewer – Research and Reports in Biology. Dove Medical Press
- 2014-Present Proposal Reviewer – European Commission, Research and Innovation
- 2014-Present Academic Editor PLoS ONE

Social Media

- Linkedin: Parasitology Interest Group (1,356 members; April 30, 2014)
- Parasitology Professionals (1,148 members; April 30, 2014)
- Infectious Diseases Group (10,292 members; April 30, 2014)

Research Gate [\(Link\)](#)

GRANT SUPPORT

Completed Grants

- 2001-2003 Co-PI PI: Vasta, GR
Oyster Disease Research Program: Epizootiology and pathogenicity of two *Perkinsus* species parasitizing the Eastern Oyster *Crassostrea virginica*
NOAA-SeaGrant ORDP
\$240,056
- 2002-2004 Co-PI PI: Vasta, GR
Oyster Disease Research Program: "Susceptibility of *Crassostrea ariakensis* to *Bonamia* species: potential for increased disease transmission between oyster species"
NOAA-SeaGrant ORDP
\$210,000

- 2002-2004 Co-PI PI: Vasta, GR
Oyster Disease Research Program: Identification of candidate genes for chemotherapeutic and/or genetic intervention against Dermo disease using expression sequence tags (EST)
NOAA-SeaGrant ORDP
 \$254,323
- 2003-2005 Co-PI PI: Vasta, GR
Oyster Disease Research Program: Infectivity and pathogenicity of recently described *Perkinsus* species present in the eastern oyster *Crassostrea virginica*
NOAA-SeaGrant ORDP
 \$247,572
- 2003-2005 Co-PI PI: Gardner, MJ. (now El-Sajed, NM) J. Craig Venter Institute (former TIGR).
MCB-Microbial Genetics: Genome sequencing of the protistan parasite *Perkinsus marinus*
NSF-USDA
 \$1,656,540
 \$199,998 (COMB-UMBI)
- 2003-2006 Principal Investigator: Vasta, GR, Co-PI: **Robledo, JAF**. NSF Program: Intracellular survival of protistan parasites: Role(s) of the host and parasite transporter Slc11a in the competition for irons
NSF
 \$451,620
- 2009-2011 PI (50%)
NIH (R21)
 A heterologous expression system for Apicomplexa genes
 \$355,806
- 2008-2011 PI: Gerardo R. Vasta
NSF
 A novel galectin type as a surface receptor for intracellular parasites
 \$450,000
- 2010-2013 Co-investigator (0%) PI: Gerardo R. Vasta
NSF
 The role(s) of the cation transporter Nramp in the intracellular survival of protistan parasites
 \$457,384

Active Grants

- 2013-2016 Co-investigator PI: Ramunas Stepanauskas Co-Pi Peter Countway, David Emerson, Beth Orcutt
NSF
 Acquisition of genome sequencers for Bigelow Laboratory for Ocean Sciences
 \$535,212
- 2015-2017 Co PI (20%) PI: Joaquín Martínez Martínez (Bigelow Lab)
NSF (EAGER-IOS)
 Viruses of the protozoan parasites *Perkinsus* spp.: isolation and characterization
 \$298,674
- 2015-2017 PI (20%) Co-PI: Nicholas R. Record, Peter D. Countway (Bigelow Lab)
Saltonstall Kennedy Funds (2014/15 S-K)
 Seasonal patterns of protozoan parasites in the Gulf of Maine and the risk of bioaccumulation of human waterborne pathogens
 \$394,695
- 2015-2016 PI Co-PI: Claudio H. Slamovits (Dalhousie University)
Gordon and Betty Moore Foundation

Genetic tools for laboratory culture screening for transformability and manipulation of dinoflagellates
\$150,000

Pending

- 2016-2016 PI (1.0%) Co-PI: Peter D. Countway (Bigelow Lab)
SEANET
Tracking the Origin of Dermo Disease in Oysters from Maine
Proposal
\$12,000 (direct cost)
- 2016-2018 PI
NSF: BBE
Development of an *in vitro* methodology for culturing *Haplosporidium nelsoni* (MSX): a tool for identifying novel intervention strategies against MSX
Pre-Proposal
\$2 (direct cost)
- 2016-2018 PI
NSF: BBE
Screening of the Provasoli- Guillard National Center for Marine Algae and Microbiota algae collection for algae strains to boost the oyster immunity against Dermo disease
Pre-Proposal
\$2 (direct cost)

RESEARCH INTEREST

- Parasite “omics” (genomics, transcriptomics, proteomics).
- Host-pathogen interactions.
- Molecular and genetic basis of resistance against infectious diseases.
- Identification and characterization of mechanisms involved in parasite virulence.
- Alternative models for production of recombinant proteins.
- Drug discovery.
- Organelle biogenesis.

LANGUAGES:

- Fluent in Spanish, English, and Galician.
- Conversational French and Portuguese.

TEACHING SERVICE

Research Co-Advisor

- 1999 Manuela Almeida, graduate student visitor, Molecular Biology and Biotechnology, Center for Marine Sciences–CCMar, University of Algarve, Faro Portugal
- 2001 Patrícia A. Nunes, graduate student visitor, Molecular Biology and Biotechnology, Center for Marine Sciences–CCMar, University of Algarve, Faro, Portugal
- 2002 Harmony Hancock, Technician
- 2002 Sean T. Berg, Baltimore Polytechnic Institute, Ingenuity Research Practicum, summer Intern
- 2003-4 Kiran Jay Harding, River Hill High School, summer intern
- 2004 Rita Ascenso, graduate student visitor, Molecular Biology and Biotechnology, Center for Marine Sciences–CCMar, University of Algarve, Faro Portugal
- 2004 Jerusa Contee, Baltimore Polytechnic Institute, Ingenuity Research Practicum, summer Intern

- 2004 Vincent A. Connors, Division of Natural Sciences and Engineering-Biology, University of South Carolina, Spartanburg
- 2005 Teaike Butts, Living Marine Resources Cooperative Science Center (LMRCSC) NOAA, Center of Marine Biotechnology, summer intern
- 2005 Zhuoer Lin, graduate student, MEES Program, Center of Marine Biotechnology, University of Maryland College Park
- 2005 Gwendolyn Mullen, Visiting Teacher (Morgan State University Graduate School Science Education), Expert Program, Center of Marine Biotechnology, summer intern
- 2006 David Hall. Living Marine Resources Cooperative Science Center (LMRCSC)/NOAA, summer intern
- 2006 Claire Lefebvre. Expert Program, Center of Marine Biotechnology, summer intern
- 2007 Claudia Solís-Román, Thomas Jefferson High School for Science & Technology, April-May
- 2007 Jeewon kim, Thomas Jefferson High School for Science & Technology, April-May
- 2008 Sherwin Farlan, River Hill High School
- 2008 Dana N. Wilson, Visiting Teacher, Towson High School, Expert Program, Center of Marine Biotechnology, summer intern
- 2008 Kwabina Nimarco, Living Marine Resources Cooperative Science Center (LMRCSC) NOAA, Center of Marine Biotechnology, summer intern
- 2009 Patricia Costa. Towson University, Center of Marine Biotechnology, January-May
- 2009 Roberto Olmo-Bermúdez, Living Marine Resources Cooperative Science Center (LMRCSC) NOAA, Center of Marine Biotechnology, summer intern
- 2009 Nana Osei, Living Marine Resources Cooperative Science Center (LMRCSC) NOAA, Center of Marine Biotechnology, summer intern
- 2009 Dana O. Johnson, NSF, 2009 ESEP Chesapeake Teacher Research Fellowship
- 2010 Negash Adugna, CCBC Volunteer.
- 2011 Darbi R. Jones, undergraduate student LMRCSC-IMET Program.
- 2011 Oluwakemi Adewuyi, undergraduate, NSF fellow.
- 2011 Samuel Adekanye, ExPERT Program.
- 2011 Surekha Shridhar, CCBC Volunteer.
- 2013 Yesmalie Alemán Resto, REU (NSF Program).
- 2013 Jonah Belk Colby Semester.
- 2014 Nicholas Marquis REU (NSF Program).
- 2014 Alexa Williams REU (NSF Program).
- 2015 Emma R. Cold REU (NSF Program).
- 2015 Robert D. Morefield REU (NSF Program).
- 2015 Sarah Conlisk, Western Massachusetts, Volunteer.
- 2016 Nastasia J. Freyria, Université de Toulon, France, Master Student.
- 2016 Mathieu Lazare, Université de Toulon, France, Master Student.

Postdoctoral advisor

- 2011 Leslie Smidth, IMET, University of Maryland School of Medicine.

Ph.D. Committee

- 2005-2010 Zhuoer Lin, Ph.D. MEES Program, IMET, University of Maryland College Park
- 2010- Liuh, Jarren, Graduate Student MEES Program, UMCES-IMET, University of Maryland College Park.

Teaching

- 2010-2012 Medical Spanish, Intermediate II, University of Maryland Baltimore, School of Medicine.

PUBLICATIONS (60+)**Peer Review Journals** ([Research Gate Profile](#))

1. Van Voorhis, W, ... Alemán Resto, Y, **Fernández Robledo JA** et al. Open-source drug discovery with the Malaria Box compound collection for neglected diseases and beyond. *PLoS Pathogens*.
2. Cold, ER, Freyria, NJ, Martínez Martínez, J, **Fernández Robledo JA** An agar- based method for plating marine protozoan parasites of the genus *Perkinsus*. *PLoS One*.
3. Cunningham, C., **Fernández-Robledo, JA**. 2015. Molluscan Immunology. *Fish and Shellfish Immunology*. 05/2015; DOI:10.1016/j.fsi.2015.05.015
4. Marquis, ND, Record, NR, **Fernández-Robledo, JA**. 2015. Survey for protozoan parasites in eastern oysters (*Crassostrea virginica*) from the Gulf of Maine using PCR-based assays. *Parasitology International*. **64**(5): 299-302
5. Alemán Resto, Y, **Fernández Robledo JA** 2014. Identification of MMV Malaria Box inhibitors of *Perkinsus marinus* using an ATP-based bioluminescence assay. *PLoS One* **9**(10): e111051 ([pdf](#))
6. **Fernández-Robledo, JA**, Vasta, GR, Record, NN. 2014. Protozoan parasites of bivalve molluscs: literature follows culture. *PLoS One*. **9**(6): e100872 ([pdf](#))
7. Wathsala Wijayalath, Sai Majji, Yuliya Kleschenko, Teodor D. Brumeanu, Eileen Franke Villasante, Gerardo R. Vasta, **José-Antonio Fernández-Robledo**, and Sofia Casares 2014. Humanized HLA-DR4 mice fed with the protozoan pathogen of oysters *Perkinsus marinus* (Dermo) do not develop noticeable pathology but elicit systemic immunity. *PLoS One*. **9** (1): e87435 ([pdf](#)).
8. Feng, C, Ghosh, A, Amin, M, Giomarelli, B, Sridhar, S, Banerjee, A, **Fernández-Robledo, JA**, Bianchet, MA, Wang, L-X, Wilson, IBH, Vasta, GR. 2013. The galectin CvGal1 from the eastern oyster (*Crassostrea virginica*) binds to blood group A oligosaccharides on the hemocyte surface. *The Journal of Biological Biochemistry*. **288**: 24394-24409 ([Abstract](#)).
9. Shridhar, S, Hassan, K, Sullivan, DJ, Vasta, GR, **Fernández-Robledo, JA**. 2013. Quantitative assessment of the proliferation of the protozoan parasite *Perkinsus marinus* using a bioluminescence assay for ATP content. *International Journal for Parasitology: Drugs and Drug Resistance*. **3**: 85-92. ([pdf](#)).
10. Vasta, GR. Ahmed, H, Bianchet, MA, **Fernández-Robledo, JA**, Amzel, LM. 2012. Diversity in recognition of glycans by F-type lectins and galectins: Molecular, structural, and biophysical aspects. *Annals of the New York Academy of Sciences* 1253, E14-26 ([Abstract](#)).
11. Vasta, GR. Ahmed, H, Lazar, MN, Banerjee, A, Pasek, M, Shridhar, S, Guha, P, **Fernández-Robledo, JA**. 2012. Galectins as self/non-self recognition receptors in innate and adaptive immunity: An unresolved paradox. *Frontiers in Immunology*, **3**: 199 ([Abstract](#)).
12. **Fernández-Robledo, JA**, Matsuzaki, M, Caler, Keeling, PJ, Roos, DS, Vasta, GR. 2011. The search for the missing link: a relic plastid in *Perkinsus*? *International Journal for Parasitology*. **41**(12): 1217-1229 ([PubMed](#)).
13. Lin, Z, **Fernández-Robledo, JA**, Cellier, MFM, Vasta, GR. 2011. The natural resistance-associated macrophage protein from the protozoan parasite *Perkinsus marinus* mediates iron uptake. *Biochemistry*, **120**(2): 257-268 ([Abstract](#)).
14. **Fernández-Robledo JA**, Vasta GR. 2010. Production of recombinant proteins from protozoan parasites. *Trends in Parasitology*, **26**(5): 244-254 ([Abstract](#)).
15. Joseph SJ*, **Fernández-Robledo JA***, Gardner MJ, El-Sayed NM, Kuo C-H, Schott EJ, Wang, H, Kissinger JC, Vasta, G.R. 2010. The Alveolate *Perkinsus marinus*: Biological insights from EST gene discovery. *BMC Genomics*. **11**: 228 * Contributed equally ([Abstract](#)).
16. Lin, Z, **Fernández-Robledo, JA**, Cellier, MFM, Vasta, GR. 2009. Metals and membrane metal transporters in biological systems: The role(s) of Nramp in host-parasite interactions. *Journal of the Argentinean Society of Chemistry*. **97**: 210-25 ([pdf](#)).
17. Alavi, MR, **Fernández-Robledo, JA**, Vasta, GR. 2009. Development of an *in vitro* assay to examine intracellular survival of *Perkinsus marinus* trophozoites upon phagocytosis by oyster (*Crassostrea virginica* and *Crassostrea ariakensis*) hemocytes. *Journal of Parasitology*. **95**: 900-7 ([Abstract](#)).

18. **Fernández-Robledo JA**, Lin Z, Vasta GR. 2008. Transfection of the protozoan parasite *Perkinsus marinus*. *Molecular and Biochemical Parasitology* **157**: 44-53 ([Abstract](#)).
19. **Fernández-Robledo JA**, Schott EJ, Vasta GR. 2008. *Perkinsus marinus* superoxide dismutase 2 (PmSOD2) localizes to single-membrane subcellular compartments. *Biochemical and Biophysical Research Communications* **375**: 215-9 ([Abstract](#)).
20. Pecher W, Alavi M, Schott E, **Fernández-Robledo JA**, Roth L, Berg S, et al. 2008. Assessment of the northern distribution range of selected *Perkinsus* species in eastern oysters (*Crassostrea virginica*) and hard clams (*Mercenaria mercenaria*) using PCR-based detection assays. *Journal of Parasitology* **94**: 410–22 ([Abstract](#)).
21. Schott EJ, **Fernández-Robledo JA**, Alavi MR, Vasta GR. 2008. Susceptibility of *Crassostrea ariakensis* (Fujita 1913) to *Bonamia* and *Perkinsus* spp. infections: potential for disease transmission between oyster species. *Journal of Shellfish Research*: 541–9 ([Abstract](#)).
22. Structural/functional aspects of protein–carbohydrate interactions in innate immunity: Applications to fisheries and aquaculture. Vasta, GR, Du, SJ, Ahmed, H, **Robledo JAF**, Tasumi, S, Jackson, SS, Saito, K. *Journal of Biotechnology*. **136**: Supplement(0): S252 ([Abstract](#)).
23. Elandalloussi LM, Leite RM, Afonso R, Nunes PA, **Robledo JAF**, Vasta GR, et al. 2004. Development of a PCR-ELISA assay for diagnosis of *Perkinsus marinus* and *Perkinsus atlanticus* infections in bivalve molluscs. *Molecular Cell Probes* **18**: 89-96 ([Abstract](#)).
24. Pecher WT, **Robledo JAF**, Vasta GR. 2004. Identification of a second rRNA gene unit in the *Perkinsus andrewsi* genome. *Journal of Eukaryotic Microbiology* **51**: 234-45 ([Abstract](#)).
25. **Robledo JAF**, Courville P, Cellier MF, Vasta GR. 2004. Gene organization and expression of the divalent cation transporter Nramp in the protistan parasite *Perkinsus marinus*. *Journal of Parasitology* **90**: 1004-14 ([Abstract](#)).
26. Schott EJ, **Robledo JAF**, Wright AC, Silva AM, Vasta GR. 2003. Gene organization and homology modeling of two iron superoxide dismutases of the early branching protist *Perkinsus marinus*. *Gene* **309**: 1-9 ([Abstract](#)).
27. Quesenberry M, Saito K, Krupatkina D, **Robledo JAF**, Drgon T, Pecher W, et al. 2002. Bioassay for ichthyocidal activity of *Pfiesteria piscicida*: Characterization of a culture flask assay format. *Journal of Applied Phycology* **14**: 241-54 ([Abstract](#)).
28. **Robledo JAF**, Nunes PA, Cancela ML, Vasta GR. 2002. Development of an *in vitro* clonal culture and characterization of the rRNA gene cluster of *Perkinsus atlanticus*, a protistan parasite of the clam *Tapes decussatus*. *Journal of Eukaryotic Microbiology* **49**: 414-22 ([Abstract](#)).
29. Saito K, Drgon T, **Robledo JAF**, Krupatkina DN, Vasta GR. 2002. Characterization of the rRNA Locus of *Pfiesteria piscicida* and Development of Standard and Quantitative PCR-Based Detection Assays Targeted to the Nontranscribed Spacer. *Applied and Environmental Microbiology* **68**: 5394-407 ([pdf](#)).
30. Coss CA, **Robledo JAF**, Ruiz GM, Vasta GR. 2001a. Description of *Perkinsus andrewsi* n. sp. Isolated from the Baltic clam (*Macoma balthica*) by Characterization of the Ribosomal RNA Locus, and Development of a Species-Specific PCR-Based Diagnostic Assay. *Journal of Eukaryotic Microbiology* **48**: 52-61 ([Abstract](#)).
31. Coss CA, **Robledo JAF**, Vasta GR. 2001b. Fine structure of clonally propagated *in vitro* life stages of a *Perkinsus* sp. isolated from the Baltic clam *Macoma balthica*. *Journal of Eukaryotic Microbiology* **48**: 38-51 ([Abstract](#)).
32. **Robledo JAF**, Coss CA, Vasta GR. 2000. Characterization of the ribosomal RNA locus of *Perkinsus atlanticus* and development of a polymerase chain reaction-based diagnostic assay. *Journal of Parasitology* **86**: 972-8 ([Abstract](#)).
33. Robledo JAF, Saito K, Steidinger KA, Vasta GR. 2001. The non-transcribed spacer for the rRNA locus as a target for specific detection of the dinoflagellate *Pfiesteria piscicida* and protistan parasites (*Perkinsus* spp.). Ninth International Conference on Harmful Algal Blooms, at Hobart, Australia, 7-11 February 2000: 238-41 ([Abstract](#)).
34. **Robledo JAF**, Wright AC, Marsh AG, Vasta GR. 1999. Nucleotide sequence variability in the non-transcribed spacer of the rRNA locus in the oyster parasite *Perkinsus marinus*. *Journal of Parasitology* **85**: 650-6 ([Abstract](#)).

35. **Robledo JAF**, Gauthier JD, Coss CA, Wright AC, Vasta GR. 1998. Species-specificity and sensitivity of a PCR-based assay for *Perkinsus marinus* in the eastern oyster, *Crassostrea virginica*: a comparison with the fluid thioglycollate assay. *Journal of Parasitology* **84**: 1237-44 ([pdf](#)).
36. Figueras A, **Robledo JAF**, Novoa B. 1996. Brown ring disease and parasites in clams (*Ruditapes decussatus* and *R. philippinarum*) from Spain and Portugal. *Journal of Shellfish Research* **15**: 363-8 ([pdf](#)).
37. Cáceres-Martínez J, **Robledo JAF**, Figueras A. 1995. Presence of *Bonamia* and its relation to age, growth rates and gonadal development of the flat oyster, *Ostrea edulis*, in the Ria de Vigo, Galicia (NW Spain). *Aquaculture* **130**: 15-23 ([Abstract](#)).
38. **Robledo JAF**, Figueras A. 1995. in cultured mussels (*Mytilus galloprovincialis* Lmk.) from Galicia, Spain. *Journal of Parasitology* **81**: 354-63 ([Abstract](#)).
39. **Robledo JAF**, Mialhe E, Figueras AJ. 1995. Purification of several phases of the parasite *Marteilia refringens* (Protozoa: Asctospora) from mussels (*Mytilus galloprovincialis*). *Techniques in Fish Immunology*. FITC 4. 71: 117-122
40. **Robledo JAF**, Santarem MM, Gonzalez P, Figueras A. 1995. Seasonal variations in the biochemical composition of the serum of *Mytilus galloprovincialis* Lmk. and its relationship to the reproductive cycle and parasitic load. *Aquaculture* **133**: 311-22 ([Abstract](#)).
41. Anderson TJ, McCaul TF, Boulo V, **Robledo JAF**, Lester RJG. 1994. Light and electron immunohistochemical assays on paramyxean parasites. *Aquatic Living Resources/ Ressources Vivantes Aquatiques* **7**: 47-52 ([pdf](#)).
42. Cáceres-Martínez J, **Robledo JAF**, Figueras A. 1994a. Settlement and post-larvae behaviour of *Mytilus galloprovincialis*: Field and laboratory experiments. *Marine Ecology Progress Series* **112**: 107-17 ([pdf](#)).
43. Cáceres-Martínez J, **Robledo JAF**, Figueras A. 1994b. Management of blue mussel seed (*Mytilus galloprovincialis*) for the mussel farming industry in Galicia NW Spain. *European Aquaculture Society Special Publication* **21**: 236-7
44. Figueras A, **Robledo JAF**. 1994. *Bonamia ostreae* present in flat oysters (*Ostrea edulis*) does not infect mussels (*Mytilus galloprovincialis*). *Bulletin of the European Association of Fish Pathologists* **14**: 98-100 ([pdf](#)).
45. **Robledo JAF**, Cáceres-Martínez J, Figueras A. 1994a. *Mytilicola intestinalis* and *Proctoeces maculatus* in mussel (*Mytilus galloprovincialis* Lmk.) beds in Spain. *Bulletin of the European Association of Fish Pathologists* **14**: 89-91 ([pdf](#)).
46. **Robledo JAF**, Cáceres-Martínez J, Figueras A. 1994b. *Marteilia refringens* in mussel (*Mytilus galloprovincialis* Lmk.) beds in Spain. *Bulletin of the European Association of Fish Pathologists* **14**: 61-3
47. **Robledo JAF**, Boulo, V, Mialhe, E, Desprès, B, Figueras AJ. 1994. Monoclonal antibodies against sporangia and spores of *Marteilia* sp. (Protozoa: Asctospora). *Diseases of Aquatic Organism* **18**: 211-216 ([pdf](#)).
48. **Robledo JAF**, Cáceres-Martínez J, Sluys R, Figueras AJ. 1994c. The turbellarian *Urastoma cyprinae* Graff (Platyhelminthes: Urastomidae) from the blue mussel *Mytilus galloprovincialis* Lamarck in Spain: Occurrence and pathology. *Diseases of Aquatic Organism* **18**: 203-10 ([pdf](#)).
49. **Robledo JAF**, Santarem MM, Figueras A. 1994d. Parasite loads of rafted blue mussels (*Mytilus galloprovincialis*) in Spain with special reference to the copepod, *Mytilicola intestinalis*. *Aquaculture* **127**: 287-302 ([Abstract](#)).
50. Santarém MM, Figueras AJ, **Robledo JAF**, Caldas JR. 1994. Seasonal changes in hemocytes and humoral defence factors in blue mussels (*Mytilus galloprovincialis*). *Diseases of Aquatic Organism* **18**: 217-22 ([pdf](#)).
51. Cáceres-Martínez J, **Robledo JAF**, Figueras A. 1993. Settlement of mussels *Mytilus galloprovincialis* on an exposed rocky shore in Ria de Vigo, NW Spain. *Marine Ecology Progress Series* **93**: 195-8 ([pdf](#)).
52. Figueras A, **Robledo JAF**. 1993. Does the *Marteilia* present in mussels (*Mytilus galloprovincialis*) infect the flat oysters (*Ostrea edulis*). *Bulletin of the European Association of Fish Pathologists* **13**: 97-9

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Non-Peer Review Journals

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Cold, ER, Vasta GR, **Fernández-Robledo JA**. Transient expression of *Plasmodium berghei* MSP8 and HAP2 in the marine protozoan parasite *Perkinsus marinus*. *Biochemical and Biophysical Research Communications*.

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Characterization of PmMOE, a unique membrane protein in *Perkinsus* spp. **Fernández-Robledo, JA**.

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GENOME PROJECTS

Perkinsus marinus ATCC 50983 (PRA240), whole genome shotgun sequencing project. ([Link](#)), ([Link](#))

Genome strain deposit. ([Link](#)).

INVITED TALKS

“Bioengineering the marine protozoan parasite *Perkinsus marinus*: from basic science to vaccines” University of Maine, Chemical and Biological Engineering, Orono, November 13th, 2015.

- "The protozoan parasite *Perkinsus marinus*: Lemons and lemonade" Southern Maine Community College, Portland, October 29th, 2015.
- "Dermo" versus "MSX" in Maine: Who is to blame? Shellfish Working Group. Patten Free Library, Bath, May 6th, 2015.
- "Protozoan parasites in oysters from Maine: "Dermo" versus MSX". IMET, University of Maryland; Baltimore, USA. April 1st 2015.
- "Dermo" in Maine, epizootiology, treatment, and biotechnological applications. University of Maine; Orono, USA. January 21st 2015.
- "Dermo" un protozoo parásito de moluscos: perspectiva histórica y aplicaciones biotecnológicas. Universidad de Murcia, Spain, December 19th 2014.
- "Dermo" disease: the story of an oyster parasite with an unexpected twist. Dalhousie University; Halifax, Nova Scotia, Canada. September 27th 2014.
- Oysters, parasites, and malaria: Guess what? University of New Mexico, Department of Biology, Albuquerque, NM, April 27th 2014.
- Science Communication: oyster diseases and human diseases. Bigelow Laboratory for Ocean Sciences. October 17th 2013.
- The oyster parasite *Perkinsus marinus*: an unexpected link between oysters and malaria. Senior College at USM Lewiston- Auburn College. November 8th 2013.
- "Shucking" news: marine protozoan parasites in oysters. Café Scientifique, Boothbay Opera House, August 13th 2013.
- Molecular biology of the protozoan *Perkinsus marinus*: what is there to learn? Plentziako Itsas Estazioa (PIE-UPV/EHU) Join European MSc Degreee European Master in Marine Environment and Resources. Plentzia, Spain, September 28, 2012.
- Encounters between Malaria and Dermo disease in the protozoan world. PIE, Observatoire Oceanologique de Banyuls, Banyuls-sur-Mer, France, September 24, 2012.
- Marine organisms as models in biotechnology and biomedicine. Plentziako Itsas Estazioa (PIE-UPV/EHU), Join European MSc Degreee European Master in Marine Environment and Resources. Plentzia, Spain, September 18, 2012.
- The protozoan parasite *Perkinsus marinus*: searching for clues for intervention and beyond. UPV, Bigelow Laboratory for Ocean Sciences, West Boothby Hbr, ME, January 17, 2012.
- The protozoan parasite *Perkinsus marinus*: catching up with the big leagues. UPV, Bilbao, December 27, 2011.
- The protozoan parasite *Perkinsus marinus* in the XXI century: new perspectives for an old problem. CICESE, Ensenada, México, January 14, 2011.
- Production of recombinant proteins from protozoan parasites: Current approaches and novel platforms. Invited speaker. Pep Talks, The Protein Science Week, San Diego, California, January 2011.
- Perkinsus marinus* (Alveolata, Perkinsea): The human parasite wannabe? Walter Reed Army Institute of Research, Silver Spring, Maryland, November 2010.
- Perkinsus*, a new heterologous expression system for Apicomplexa genes? Structural Genomics Consortium, University of Toronto, 8 August 2008.
- The perks of *Perkinsus*, a protistan parasite of mollusks. Fraunhofer-Institut für Zelltherapie und Immunologie IZI, 30 April, 2008.
- The protozoan parasite *Perkinsus marinus*: New solutions for an old problem? Centro de Investigaciones Mariñas, Vilaxoán, Pontevedra, Spain, May 19, 2005.
- The protozoan parasite *Perkinsus marinus*: New solutions for an old problem? Universidade de Vigo, Campus Universitario de Ourense, Ourense, Spain, May 11, 2005, (Featured in local newspaper).
- Perkinsus marinus*: from diagnostic to genomics, new approaches for intervention. Center of Marine Biotechnology, University of Maryland Biotechnology Institute, Baltimore. March 16, 2005, Baltimore, Maryland, USA.
- Applications of molecular probes to differential diagnostic of *Perkinsus marinus* from other *Perkinsus* spp. in farmed shellfish production. Annual Aquaculture Research, Extension and Business Opportunities Update. Northeastern Regional Aquaculture, February 24 2005. NRAC (UMass Dartmouth Campus), Modular Building # 3, 285 Old Westport Road. N. Dartmouth, Massachusetts, USA.

- Genomic approaches to study the protozoan parasite *Perkinsus marinus*. Veterinary Medicine, University of Georgia. 28 September 2004. Athens, Georgia, USA.
- The protozoan parasite *Perkinsus marinus*: new perspectives on an old oyster problem. J. Craig Venter Science Foundation Joint Technology Center. 23 March 2004. Rockville, Maryland, USA.
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- The turbellarian *Urastoma cyprinae* a parasite of the blue mussel *Mytilus galloprovincialis*: occurrence and pathology.
- The presence of a turbellarian parasite in *Mytilus californianus* and *Mytilus galloprovincialis* from Baja California, México.
- First Meeting on Pathology of Mollusk Bivalves from Baja California. 29-30 May 1995. Center of Scientific Research and Education from Ensenada (CICESE). Department of Aquaculture. México.

PRESENTATIONS-LECTURES-POSTERS (17 out of 84)

- Marquis, N., Record, N.R., **Fernández-Robledo, JA**. Survey for protozoan parasites in eastern oysters (*Crassostrea virginica*) from the Gulf of Maine using PCR-based assays. ASLO, Granada, Spain.
- Wijayalath, W., Danner, R., Richie, T.L., Villasante, E., Brumeanu, T.D., Vasta, G.R., **Fernández-Robledo, J.A.**, and Casares, S. 2012. *Perkinsus marinus*, the agent responsible for Dermo Disease in Oysters, does not induce pathology in humanized HLA-DR4 mice and stimulates oral immunity." in: The American Society for Tropical Medicine and Hygiene. Atlanta Marriott Marquis, Atlanta, Georgia USA.
- Joseph S, **Fernández-Robledo JA**, Schott EJ, Gardner MJ, Wang H, El-Sayed NM, et al. 2008. Gene survey in the protozoan parasite *Perkinsus marinus* using Expressed Sequence Tags (EST). In: Molecular Parasitology Meeting XIX. Marine Biological Laboratory, Woods Hole, MA
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- Pecher WT, Alavi M, **Robledo JAF**, Schott EJ, Roth L, Berg ST, et al. 2007. Assessment of the distribution of *Perkinsus* spp. in the eastern oyster *Crassostrea virginica* and the hard clam *Mercenaria mercenaria* along the Mid- and North Atlantic coast of North America using molecular probes. In: 99th. National Shellfisheries Association. San Antonio, Texas
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